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United States
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Agriculture

Agricultural
Research
Service

Miscellaneous
Publication
Number 1451

Hydrologic Data for
Experimental
Agricultural
Watersheds in the
United States, 1976

ABSTRACT

Jane L. Thurman, and Ralph T. Roberts. 1986. Hydrologic data for experimental agricultural watersheds in the United States, 1976. U.S. Department of Agriculture Miscellaneous Publication No. 1451, 322 pp.

Hydrologic data from 93 agricultural watersheds for calendar year 1976 are summarized in this publication. Daily and monthly total precipitation and runoff together with annual maximum peak discharge and maximum runoff for selected time intervals are included. Watershed descriptive information is presented. Maximum and minimum daily temperatures are given for many of the watersheds. This is the 20th publication in this series.

KEYWORDS: Air temperature, hydrology data, hydrology research, precipitation, rainfall, runoff, streamflow, water data, watersheds.

U.S. DEPARTMENT OF AGRICULTURE
Agricultural Research Service
In Cooperation With
State Agricultural Experiment Stations

United States
Department of
Agriculture

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Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1976

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PREFACE

This publication presents basic data on monthly precipitation and runoff; annual maximum discharge and maximum volumes of runoff; daily precipitation and mean daily discharge, with daily air temperature for some areas; and selected runoff events, with associated data on rainfall, land use, and antecedent conditions for agricultural watersheds where research was in progress during 1976. It is a continuation of processing and releasing hydrologic data of general interest collected cooperatively with other agencies.

Throughout the watershed studies, the State agricultural experiment stations have collaborated in selecting, planning, and conducting these studies. In several studies the U.S. Geological Survey and State and local agencies, such as State water boards and highway departments of local drainage and conservation districts, have assisted in the work. The classification and correlation of soils and evaluation of other watershed characteristics in the descriptions have been based mostly on field surveys by the U.S. Department of Agriculture's Soil Conservation Service.

These data were collected originally for specific research objectives, which are still in progress or have been attained. In addition, they can serve many other purposes. This publication provides information for other Government agencies, university staff members, graduate students, private engineers, and those who need detailed, factual information concerning agricultural watersheds. High-quality hydrologic data such as these have historic value in addition to providing a basis for research and design and evaluation of projects and programs for conservation and development of the Nation's water resources.

Although the data on which this publication is based were collected in 1976 or earlier, the findings are still valid and are used for further research on agricultural watersheds.

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The decimal system of paging is used to index the watershed data. Pages are numbered at the bottom (center) according to location and watershed number, and the data for each watershed are given on one or more pages. For example, page 10.001-1 is location 10 (Watkinsville, Ga.), Watershed 1 (W-1 at Watkinsville), and page 1 of the data for that watershed. For convenience in finding items listed in table 3, pages are also numbered consecutively at the bottom (outside corner).

Table 3 is a list of continuing or new watersheds by State, locality, assigned location number, and land resource area, with number of watershed units and selected runoff events reported for 1976 in this publication. Table 4 includes similar data on discontinued watersheds.

Copies of this publication may be purchased from the National Technical Information Service, 5285 Port Royal Road, Springfield, Va. 22161.

ARS has no additional copies for free distribution

Issued July 1986

Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1976

This is the 20th publication in the series on hydrological data by the U.S. Department of Agriculture. The first three volumes are described in the following section and the others are summarized in table 1. Since the decimal paging system used (see explanation on preceding page) is consistent with that at the bottom of pages in the other 19 publications, previously published records and general descriptions associated with each study can be readily found.

This publication contains selected hydrologic data from 93 watersheds for 1976. It includes data on monthly precipitation and runoff for all the watersheds; annual maximum discharge and maximum volumes of runoff for intervals of 1, 2, 6, and 12 hours and 1, 2, and 8 days for 90 watersheds; daily precipitation for 92 watersheds; mean daily discharge for 93 watersheds; applicable daily maximum and minimum air temperatures for 81 watersheds; and detailed information on 1 or more selected typical storm events for 79 watersheds.

Information on selected storm events includes (1) tabular data for antecedent rainfall and runoff, (2) data on rainfall intensity and runoff for the event and on accumulated depth of rainfall and runoff, (3) description of watershed conditions at the time of the selected events, and (4) plottings of runoff hydrographs and rainfall histograms.

Newly established watersheds include descriptions of watershed physical characteristics, instrumentation, land management, graphs, maps and recommended area of application of the results.

The first 11 publications in this series resulted from the cooperative efforts of several watershed research projects of the Agricultural Research Service and the editing staff in Beltsville, Md. Hydrologic data were summarized, arranged according to standardized formats, recorded on preprinted data sheets, and submitted to the editing office for final review, assemblage, and publication.

A computer-oriented system, designed and developed by the Water Data Laboratory, is now used to produce camera copy for these publications. This is the ninth publication that has been compiled using the computerized system. Hydrologic data submitted from research projects, in digital computer form, are accepted by the system. The required data analyses and summaries are performed and the tabular listings and plottings are provided within and by the system. Narrative information is incorporated into the system as uppercase and lowercase alphameric data using computer-compatible word-processing equipment. The format of hand-compiled references (4-11) has been retained where practicable in the computer-compiled versions of the publications.

PUBLICATIONS OF EARLIER DATA

Historical hydrologic data on the experimental agricultural watersheds, both terminated and active, have been previously summarized in three looseleaf publications (reprints in bound volumes) by the Agricultural Research Service. They are described in the following three reference summaries. Beginning with the hydrologic data for 1956 through 1976, the types of data previously published separately in these three references are combined in U.S. Department of Agriculture Miscellaneous Publications 945, 994, 1070, 1164, 1194, 1216, 1226, 1262, 1330, 1370, 1380, 1383, 1412, 1420, 1437, 1446, and 1451. These 17 publications are listed in table 1 as references 4-20. These reference numbers have been assigned to simplify citations to them in this and future publications. The first three looseleaf, and the first eight miscellaneous publications have been recorded on 16-mm

microfilm. Copies can be made available for the cost of the film processing.

Reference 1.—"Monthly Precipitation and Runoff for Small Agricultural Watersheds in the United States," Soil and Water Conservation Research Branch, (691 pages, 1957) includes physical descriptions and land use of 334 experimental agricultural watersheds at 60 locations in 27 States from 1923 through 1957. Many of these watersheds were discontinued before 1955.

Reference 2.—"Annual Maximum Flows From Small Agricultural Watersheds in the United States," Soil and Water Conservation Research Division, (330 pages, 1958) includes records from 322 watersheds at 59 locations in 27 States from 1923 through 1957. Many of these watersheds were discontinued before 1957.

Reference 3.—"Selected Runoff Events for Small Agricultural Watersheds in the United States," Soil and Water Conservation Research Division, (374 pages, 1960) includes a sampling of 1 to 6 typical runoff events from 68 watersheds at 40 locations in 25 States from 1933 through 1959. The publication has maps of each watershed, information on watershed conditions for each event, including the 30-day antecedent rainfall and runoff, and tabular as well as graphic data on each storm.

Copies of all these publications have been furnished to the Soil Conservation Service and other Federal, State, and local government agencies. Upon request, they have also been distributed to State agricultural experiment stations, university libraries and engineering departments, private engineers and individuals, and similar foreign institutions and individuals.

Table 2 lists a historical summary of the 20 publications including the designated watershed locations, area, record years of data, and a publication reference number indicating the specific data storage location in the ARS Water Data Bank.

Table 3 summarizes the location of each watershed under study and reported in this 20th publication.

Table 4 lists the watershed units where studies were discontinued in 1975.

FORM OF DATA PRESENTATION

The data in this publication are presented for each watershed in the following order: (1) Watershed description, if not previously published; (2) monthly precipitation and runoff; (3) average monthly precipitation and runoff for period of record; (4) annual maximum flows; (5) daily temperature extremes for some watersheds, daily precipitation, and mean daily discharge; (6) selected runoff events; (7) graphs of selected runoff events; and (8) watershed maps, if not previously published or if revised.

Continuing Watersheds

For current watersheds for which the descriptive information has been published in references 1 and 4-19, the tabular data begin at the top of the first page. On each page at the bottom outside corner is a sequential page number and the decimal paging system is shown at the bottom center.

The geographic location associated with each study, usually a city and State, and the local name and number of the watershed are recorded at the top of the first page for each watershed. This identification is followed by detailed information on the geographic location, including latitude and

Table 1.--Description of references 4-20 of "Hydrologic Data for Experimental Agricultural Watersheds in the United States"

Reference	For calendar year (19--)	Miscel- laneous Publi- cation No.	Year pub- lished (19--)	Total pages	Number of watersheds for which indicated data are given				
					Monthly precipi- tation and runoff	Annual maxi- mum discharge and runoff for selected time intervals	Selected runoff events	New water- sheds	Daily pre- cipitation, discharge, and/or temperature (max.-min.)
4....	56-59	945	63	672	157	142	134	45	...
5....	60-61	994	65	496	160	145	133	24	...
6....	62	1070	68	447	164	155	136	13	50
7....	63	1164	70	465	168	156	142	9	57
8....	64	1194	71	460	163	163	143	8	57
9....	65	1216	72	568	189	178	122	22	60
10....	66	1226	72	399	198	185	106	11	60
11....	67	1262	73	634	216	204	174	26	62
12....	68	1330	76	542	174	174	116	1	174
13....	69	1370	79	602	167	150	139	5	167
14....	70	1380	79	515	153	139	113	2	150
15....	71	1383	80	509	145	135	122	1	145
16....	72	1412	81	433	131	117	98	0	131
17....	73	1420	82	404	100	97	88	1	100
18....	74	1437	83	417	98	95	82	0	98
19....	75	1446	84	580	98	95	82	8	98
20....	76	xxxx	86	324	93	90	79	0	93

Table 2.--Index to information on experimental agricultural watersheds
included in references 1-20^{1/}

Water-shed ident. code ^{2/}	Study location		Water-shed name-No.	Area in acres ^{3/}	Record (19--) B _{4/} E		Index to information in reference ^{1/} -- (Revised References underlined) ^{5/}																					
	Town	State					01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20		
01001	Arnot Forest	NY	W-1	17.9	41	47	01	02																				
01002	Arnot Forest	NY	W-4	17.9	41	47	01	02																				
02002	Cohocton	NY	W-II	13.8	38	45	01	02	03																			
02003	Cohocton	NY	W-III	24.2	38	45	01	02	03																			
04001	Freehold	NJ	W-I	17.5	38	43	01	02	03																			
04002	Freehold	NJ	W-II	32.9	38	55	01	02	03																			
04003	Freehold	NJ	W-III	51.8	38	43	01	02																				
05001	College Park	MD	W-1	8.22	39	54	01	02	03																			
05002	College Park	MD	W-2	7.44	39	54	01	02	03																			
05003	College Park	MD	W-3	5.02	39	55	01	02																				
05004	College Park	MD	W-4	5.03	39	55	01	02																				
05005	College Park	MD	W-5	4.07	39	54	01	02																				
05006	College Park	MD	W-6	3.53	40	62	01	02	03	04	05	<u>06</u>																
05007	College Park	MD	W-7	3.52	40	62	01	02	03	04	05	<u>06</u>																
05008	College Park	MD	W-8	2.43	40	55	01	02	03																			
05009	College Park	MD	W-9	12.05	40	55	01	02	03																			
05010	College Park	MD	W-10	3.04	43	54	01	02																				
06001	Hagerstown	MD	W-I	46.3	38	47	01	02																				
06002	Hagerstown	MD	W-II	80.8	38	47	01	02	03																			
07001	Auburn	AL	W-I	27.0	45	47	01	02																				
08001	Vero Beach	FL	W-1	49,915.	51	73	01	02	03	04	05	<u>06</u>	07	08	09	10	11											
08002*	Vero Beach	FL	W-2	(a)66,880.	55		01	02		04	05	<u>06</u>	07	08	09	10	11	13	14	15	16	17	18	19	20			
08003*	Vero Beach	FL	W-3	(b)12,224.	55		01	02		04	05	<u>06</u>	07	08	09	10	11	13	14	15	16	17	18	19	20			
08004	Vero Beach	FL	W-4	3,970.	59	73						<u>06</u>	07	08	09	10	11											
08005*	Vero Beach	FL	W-5	(c)20,992.	65															<u>15</u>	16	17	18	19	20			
09001*	Americus	GA	W-I	22.8	38	43	01	02																				
09002*	Americus	GA	W-II	42.8	38	42	01	02																				
09003*	Americus	GA	W-III	32.0	38	42	01	02																				
09004*	Americus	GA	W-IV	59.2	38	43	01	02	03																			
10001*	Watkinsville	GA	W-1	19.2	39		01	02		04	05	06	<u>07</u>	08				12	13	14	15	16	17	18	19	20		
11001	High Point	NC	W.F.D.R.	21,100.	23	53	01	02	03	04																		
11002	High Point	NC	M.C.	10,300.	34	41	01	02		04																		
11003	High Point	NC	U.R.	7,230.	34	41	01	02		04																		
12001	Statesville	NC	C-8	5.12	33	38	01	02																				
12002	Statesville	NC	W-23	6.00	33	38	01	02																				
13001	Blacksburg	VA	W-II	5.44	39	51	01	02																				
13002	Blacksburg	VA	W-III	19.3	39	67	01	02	03	04	05	06	07	08	09	10	11											
13003	Blacksburg	VA	W-IV	3.49	51	67	01	02		04	05	06	07	08	09	10	11											
13004	Blacksburg	VA	W-V	6.08	52	67	01	02		04	05	06	07	08	09	10	11											
13005	Blacksburg	VA	W-VI	7.70	51	67	01	02		04	05	06	07	08	09	10	11											
13006*	Blacksburg	VA	T.C.	3,054.	57	69				04	05	06	07	08	09	10	11	12										
13007*	Blacksburg	VA	C.C.	786.	57						05	06	07	08	09	10	11	12	13	14	15	16						
13008*	Blacksburg	VA	B.C.	893.	57					04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16						
13009*	Blacksburg	VA	P.C.	182.	58	69					05	06	07	<u>08</u>	09	10	11	12										
13010*	Blacksburg	VA	L.W.C.	1,471.	58	74					05	06	07	<u>08</u>	09	10	11	12	13	14	15	16						
13011*	Blacksburg	VA	R.R.B.	555.	58						05	06	07	<u>08</u>	09	10	11	12	13	14	15	16						
13012*	Blacksburg	VA	P.M.B.	192.	58	69					05	06	07	<u>08</u>	09	10	11	12										
13013*	Blacksburg	VA	C.R.	2,023.	59	69					05	06	07	<u>08</u>	09	10	11	12										
13014*	Blacksburg	VA	F.C.	389.	60	69					05	06	07	<u>08</u>	09	10	11	12										
13015*	Blacksburg	VA	C.B.	1,058.	60						05	06	07	<u>08</u>	09	10	11	12	13	14	15	16						
14001	Chatham	VA	W-I	13.3	38	48	01	02																				
14002	Chatham	VA	W-II	16.1	38	48	01	02																				
14003	Chatham	VA	W-III	17.1	38	48	01	02	03																			
15001	Staunton	VA	W-I	390.	48	55	01	02	03																			
15002	Staunton	VA	W-II	2,430.	48	55	01	02																				
15003	Staunton	VA	W-III	6,144.	48	55	01	02		04																		

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds
included in references 1-20^{1/}

Water-shed ident. code ^{2/}	Study location		Water-shed name-No.	Area in acres ^{3/}	Record (19--) B ^{4/} E		Index to information in reference ^{1/} -- (Revised References underlined) ^{5/}																					
	Town	State			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20				
16006*	Klingerstown	PA	WE-38	1,773.	68																							
17001*	Edwardsville	IL	W-1	27.22	38	55	01	02	03																			
17002*	Edwardsville	IL	W-2	49.95	38	55	01	02																				
17003*	Edwardsville	IL	W-3	12.55	38	42	01	02																				
17004*	Edwardsville	IL	W-4	289.8	38	55	01	02	03																			
18001	Elmwood	IL	WB-1	1.28	45	46	01																					
18002	Elmwood	IL	WB-2	2.28	45	46	01																					
18003	Elmwood	IL	WB-3	2.61	45	46	01																					
18004	Elmwood	IL	WB-4	2.77	45	46	01																					
18005	Elmwood	IL	WB-5	1.93	45	46	01																					
18006	Elmwood	IL	WB-6	2.41	45	46	01																					
18007	Elmwood	IL	WT-1	2.02	45	46	01																					
18008	Elmwood	IL	WT-2	1.88	45	46	01																					
18009	Elmwood	IL	WT-3	2.40	45	46	01																					
18010	Elmwood	IL	WT-4	2.06	45	46	01																					
18011	Elmwood	IL	WT-5	2.76	45	46	01																					
18012	Elmwood	IL	WT-6	5.35	45	46	01																					
19001	Lafayette	IN	W-1	2.55	40	53	01	02																				
19002	Lafayette	IN	W-2	2.23	40	53	01	02																				
19003	Lafayette	IN	W-4	2.01	40	53	01	02																				
19004	Lafayette	IN	W-5	2.87	40	53	01	02	03																			
19005	Lafayette	IN	W-6	2.79	40	53	01	02	03																			
19006	Lafayette	IN	W-7	1.96	40	53	01	02																				
19007	Lafayette	IN	W-8	1.96	40	53	01	02																				
19008	Lafayette	IN	W-10	2.06	40	53	01	02																				
19009	Lafayette	IN	W-11	2.05	40	53	01	02																				
19010	Lafayette	IN	W-12	3.37	40	53	01	02																				
19011	Lafayette	IN	W-13	3.02	40	53	01	02																				
19012	Lafayette	IN	W-14	2.85	40	53	01	02																				
19013	Lafayette	IN	W-15	3.59	40	53	01	02																				
19014	Lafayette	IN	W-18	3.24	40	53	01	02																				
19015	Lafayette	IN	W-20	2.64	40	52	01	02																				
19016	Lafayette	IN	W-25	3.52	40	52	01	02																				
19017	Lafayette	IN	W-31	1.64	40	51	01	02																				
19018	Lafayette	IN	W-32	1.83	40	51	01	02																				
19019	Lafayette	IN	W-33	3.44	40	51	01	02																				
19020	Lafayette	IN	W-34	3.17	40	51	01	02																				
20001	Clarinda	IA	W-V	3.25	32	42	01	02																				
20002	Clarinda	IA	W-W	1.97	34	42	01	02																				
20003	Clarinda	IA	W-X	1.97	34	42	01	02																				
20004	Clarinda	IA	W-Y	3.25	32	42	01	02																				
20005	Clarinda	IA	W-Z	3.12	32	42	01	02																				
21001	Iowa City	IA		1,930.	24		01	02	03	04	05	06	<u>07</u>	08	09	10	11	12										
22001	Shenandoah	IA	No. 1	128,000.	34	40	01	02																				
22002	Shenandoah	IA	No. 2	67,200.	34	40	01	02																				
23001	East Lansing	MI	A	1.98	41	59	01	02																				
23002	East Lansing	MI	B	1.35	41	59	01	02																				
23003	East Lansing	MI	W	1.65	41	59	01	02																				
24001	Bethany	MO	Pa-A	2.03	34	42	01	02																				
24002	Bethany	MO	Pa-B	5.56	32	42	01	02																				
24003	Bethany	MO	Pa-C	1.97	37	42	01	02																				
24004	Bethany	MO	D-1	7.51	34	42	01	02																				
24005	Bethany	MO	D-2	8.03	34	42	01	02																				
24006	Bethany	MO	D-3	4.48	32	42	01	02	03																			
24007	Bethany	MO	1-58	2.12	33	42	01	02																				
24008	Bethany	MO	IJ-1	2.13	33	42	01	02																				
25001*	McCredie	MO	S.R.W.	153.	41		01	02																				
25002	McCredie	MO	No.2	44.3	51	63	01	02																				

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds
included in references 1-20^{1/}

Water- shed ident, code ^{2/}	Study location		Water- shed name-No.	Area in acres ^{3/}	Record (19--) B ₄ E ₅		Index to information in reference ^{1/} -- (Revised References underlined) ^{5/}																				
	Town	State					01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	
26001*	Coshocton	OH	102	1.26	37		01	02		04	05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18	19	20	
26002*	Coshocton	OH	104	1.33	37	46	01	02		04																	
26003*	Coshocton	OH	129	2.71	38	71	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13	14	15				19	20	
26004*	Coshocton	OH	135	2.69	38	69	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13						19	20	
26005*	Coshocton	OH	130	1.63	38	71	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13	14							
26006*	Coshocton	OH	107	2.59	38	46	01	02		04																	
26007*	Coshocton	OH	131	2.21	38	69	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13								
26008*	Coshocton	OH	132	0.62	48	69	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13								
26009*	Coshocton	OH	134	0.92	38	46	01	02		04																	
26010*	Coshocton	OH	123	1.37	39		01	02		04	05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18	19	20	
26011*	Coshocton	OH	115	1.61	39	70	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13								
26012*	Coshocton	OH	127	1.65	49	70	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13								
26013*	Coshocton	OH	109	1.69	38		01	02		04	05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18	19	20	
26014*	Coshocton	OH	103	0.65	39		01	02		04	05	<u>06</u>	07	08	09	10	11	12	13								
26015*	Coshocton	OH	110	1.27	39		01	02		04	05	<u>06</u>	07	08	09	10	11	12	13						19	20	
26016*	Coshocton	OH	113	1.45	39	76	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13								
26017*	Coshocton	OH	118	1.96	40	76	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13								
26018*	Coshocton	OH	111	1.18	39	70	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13								
26019*	Coshocton	OH	121	1.42	39		01	02		04	05	<u>06</u>	07	08	09	10	11	12	13						19	20	
26020*	Coshocton	OH	106	1.56	39	72	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13	14	15				19	20	
26021*	Coshocton	OH	188	2.05	39	70	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13								
26022	Coshocton	OH	124	2.07	39	47	01	02		04																	
26023*	Coshocton	OH	185	7.40	39	72	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13	14							
26024*	Coshocton	OH	187	7.20	41	72	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13	14							
26025*	Coshocton	OH	192	7.59	39		01	02		04	05	<u>06</u>	07	08	09	10	11	12	13								
26026*	Coshocton	OH	172	43.6	39	72	01	02		04	05	<u>06</u>	07	08	09	10	11										
26027*	Coshocton	OH	169	29.0	40	71	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13								
26028*	Coshocton	OH	177	75.6	40	71	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13								
26029*	Coshocton	OH	183	74.2	38	63	01	02	03	04	05	<u>06</u>	07														
26030*	Coshocton	OH	196	303.	37		01	02	03	04	05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18	19	20	
26031*	Coshocton	OH	10	122.	39	71	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13	14							
26032*	Coshocton	OH	5	349.	40	71	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13	14							
26033*	Coshocton	OH	92	920.	39	71	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13	14							
26034*	Coshocton	OH	94	1,520.	39	71	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13	14							
26035*	Coshocton	OH	95	2,570.	39	72	01	02		04	05	<u>06</u>	07	08	09	10	11	12	13	14	15						
26036*	Coshocton	OH	97	4,580.	37	70	01	02	03	04	05	<u>06</u>	07	08	09	10	11	12	13	14							
26037	Coshocton	OH	994	17,400.	36		01	02		04	05	<u>06</u>	07	08	09	10	11										
26038*	Coshocton	OH	174	52.8	60	77				05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18	19	20		
26039*	Coshocton	OH	194	187.	60	77				05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18	19	20		
26040*	Coshocton	OH	182	69.6	64											10	11	12	13	14					19	20	
26041*	Coshocton	OH	166	79.2	67														13	14	15					19	20
27001	Hamilton	OH	W-1	187.	38	44	01	02	03																		
27002	Hamilton	OH	W-II	16.2	38	44	01	02																			
27003	Hamilton	OH	W-III	28.8	38	44	01	02																			
27004	Hamilton	OH	W-IV	20.3	38	44	01	02																			
28001	Zanesville	OH	C.W.	2.55	34	45	01	02																			
28002	Zanesville	OH	P.W.	3.57	34	45	01	02																			
28003	Zanesville	OH	W.W.	2.23	34	45	01	02																			
29001	Colby	WI	W-1	345.	49	66	01	02	03	04	05	06	07	08	09	10											
30001	Coon Valley	WI	No. 1	49,400.	34	40	01	02																			
30002	Coon Valley	WI	No. 2	49,344.	34	40	01	02																			
31001*	Fennimore	WI	W-1	330.	38	69	01	02	03	04	05	06	<u>07</u>	08	09	10	11										
31002*	Fennimore	WI	W-2	22.8	38	68	01	02	03	04	05	06	<u>07</u>	08	09	10	11										
31003*	Fennimore	WI	W-3	52.5	38	69	01	02		04	05	06	<u>07</u>	08	09	10	11										
31004*	Fennimore	WI	W-4	171.	38	68	01	02	03	04	05	06	<u>07</u>	08	09	10	11										
32001	La Crosse	WI	U.P.W.	2.41	33	55	01	02																			
32002	La Crosse	WI	U.C.W.	2.24	33	46	01	02																			
32003	La Crosse	WI	C.W.	2.71	37	63	01	02		04	05	06	<u>07</u>														
32004	La Crosse	WI	C.W.A.	2.95	52	63	01	02		04	05	06	<u>07</u>														

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds
included in references 1-20^{1/}

Water-shed ident. code ^{2/}	Study location		Water-shed name-No.	Area in acres ^{3/}	Record (19--) B ₄ /E		Index to information in reference ^{1/} -- (Revised References underlined) ^{5/}																			
	Town	State			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20		
32005	La Crosse	WI	E-3	1.01	33	42	01	02																		
32006	La Crosse	WI	A-4	2.21	33	54	01	02																		
33001	Bentonville	AR	W-1	10.03	38	43	01	02																		
33002	Bentonville	AR	W-2	9.34	38	47	01	02																		
33003	Bentonville	AR	W-3	14.25	38	47	01	02																		
33004	Bentonville	AR	W-4	24.	39	47	01	02																		
33005	Bentonville	AR	W-5	19.4	38	47	01	02	03																	
33006	Bentonville	AR	W-6	10.75	39	47	01	02																		
34001*	Cherokee	OK	W-1	2.23	42	60	01	02		04																
34002*	Cherokee	OK	W-2	4.82	42	60	01	02		04																
34003	Cherokee	OK	W-3	8.04	42	60	01	02		04																
34004	Cherokee	OK	W-4	4.35	42	60	01	02		04																
34005	Cherokee	OK	W-5	7.85	42	60	01	02		04																
34006*	Cherokee	OK	W-6	1.75	42	60	01	02		04																
34007*	Cherokee	OK	W-7	1.99	42	60	01	02		04																
34008*	Cherokee	OK	W-8	4.72	41	60	01	02		04																
34009	Cherokee	OK	W-9	8.50	42	60	01	02	03	04																
34010	Cherokee	OK	W-10	1.68	60	67					05	06	07	08	09	10	11									
34011	Cherokee	OK	W-11	2.12	60	67					05	06	07	08	09	10	11									
34012	Cherokee	OK	W-12	1.68	60	67					05	06	07	08	09	10	11									
34013*	Cherokee	OK	W-13	1.99	60	67					05	06	07	08	09	10	11									
34014	Cherokee	OK	W-14	2.16	60	67					05	06	07	08	09	10	11									
34015	Cherokee	OK	W-15	2.15	60	67					05	06	07	08	09	10	11									
35001*	Guthrie	OK	W-1	33.40	32	53	01	02																		
35002*	Guthrie	OK	W-2	3.21	31	51	01	02																		
35003*	Guthrie	OK	W-3	3.13	30	51	01	02																		
35004*	Guthrie	OK	W-4	5.62	31	53	01	02																		
35005*	Guthrie	OK	W-5	5.28	31	47	01	02																		
35006*	Guthrie	OK	W-I	2.50	37	53	01	02																		
35007*	Guthrie	OK	W-II	5.09	42	55	01	02																		
35008*	Guthrie	OK	W-III	9.09	42	53	01	02																		
35009*	Guthrie	OK	W-IV	13.4	42	53	01	02																		
35010*	Guthrie	OK	W-V	15.7	42	53	01	02																		
35011*	Guthrie	OK	W-VI	94.8	42	55	01	02	03																	
36001	Muskogee	OK	W-I	14.5	39	47	01	02																		
36002	Muskogee	OK	W-II	65.4	39	45	01	02																		
36003	Muskogee	OK	W-IV	24.9	38	47	01	02																		
37001*	Stillwater	OK	W-1	16.7	51		01	02		04	<u>05</u>	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
37002*	Stillwater	OK	W-3	92.	51	72	01	02	03	04	<u>05</u>	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
37003*	Stillwater	OK	W-4	206.	51		01	02		04	05	06	07	08	09	10	11	12	13	14	15	16				
38001	Garland	TX	W-I	25.	38	47	01	02																		
38002	Garland	TX	W-III	10.4	38	47	01	02																		
38003	Garland	TX	W-IV	16.2	39	47	01	02																		
39001	Spur	TX	W-1	11.53	27	45	01	02																		
39002	Spur	TX	W-2	9.39	27	45	01	02																		
39003	Spur	TX	W-3	11.71	27	44	01	02																		
39004	Spur	TX	W-5	5.81	27	45	01	02																		
39005	Spur	TX	W-6	5.32	27	45	01	02																		
39006	Spur	TX	W-11	8.70	30	45	01	02																		
39007	Spur	TX	W-12	8.41	30	45	01	02																		
39008	Spur	TX	W-14	8.53	30	45	01	02																		
39009	Spur	TX	W-15	8.50	30	45	01	02																		
40001	Tyler	TX	W-2	9.15	43	44	01	02	03																	
40002	Tyler	TX	W-3	7.94	32	42	01	02																		
40003	Tyler	TX	W-4	6.05	31	42	01	02																		
40004	Tyler	TX	W-5	1.57	32	42	01	02																		
41001	Vega	TX	W-1	129.	38	43	01	02																		
41002	Vega	TX	W-2	95.9	38	43	01	02	03																	

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds
included in references 1-20^{1/}

Water- shed ident. code ^{2/}	Study location		Water- shed name-No.	Area in acres ^{3/}	Record (19--) B ₄ /E ₅	Index to information in reference ^{1/} -- (Revised References underlined) ^{5/}																			
	Town	State				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
42001	Riesel	TX	A	42.	38 43	01	02																		
42002*	Riesel	TX	C	579.	38	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20
42003*	Riesel	TX	D	1,110.	37	01	02	03	04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20
42004*	Riesel	TX	G	4,380.	38	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20
42005	Riesel	TX	J	5,860.	37 43	01	02	03																	
42006*	Riesel	TX	W-1	174.	37	01	02	03	04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20
42007*	Riesel	TX	W-2	130.	37	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20
42008*	Riesel	TX	W-6	42.3	39	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20
42009	Riesel	TX	W-8	40.4	38 43	01	02																		
42010*	Riesel	TX	W-10	19.7	38	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20
42011*	Riesel	TX	Y	309.	37	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20
42012*	Riesel	TX	Y-2	132.	39	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20
42013*	Riesel	TX	Y-4	79.9	39	01	02		04	05	06	07	<u>08</u>	09	10	11	12								
42014*	Riesel	TX	Y-6	16.3	39	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20
42015*	Riesel	TX	Y-7	40.	39	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	
42016*	Riesel	TX	Y-8	20.8	39	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20
42017*	Riesel	TX	Y-10	18.6	38	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20
42018	Riesel	TX	SW-2	2.7	38 43	01	02																		
42019	Riesel	TX	SW-3	3.09	39 43	01	02																		
42020	Riesel	TX	SW-5	3.09	38 43	01	02																		
42021	Riesel	TX	SW-6	3.04	38 43	01	02																		
42022	Riesel	TX	SW-7	3.15	38 43	01	02																		
42023*	Riesel	TX	SW-11	2.66	38	01	02											13	14	15	16	17	18	19	
42024*	Riesel	TX	SW-12	2.90	38	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20
42025	Riesel	TX	SW-13	3.19	38 43	01	02																		
42026	Riesel	TX	SW-14	3.02	39 43	01	02																		
42027	Riesel	TX	SW-16	3.17	37 43	01	02																		
42028*	Riesel	TX	SW-17	2.99	39	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20
42029	Riesel	TX	SW-18	3.04	38 43	01	02																		
42030	Riesel	TX	Z	310.	39 43	01	02																		
42031*	Riesel	TX	P-1	.24	38 68					05	06	07	<u>08</u>	09	10	11	12								
42032*	Riesel	TX	P-2	.24	38 68					05	06	07	<u>08</u>	09	10	11	12								
42033*	Riesel	TX	P-3	.24	38 68					05	06	07	<u>08</u>	09	10	11	12								
42034*	Riesel	TX	P-4	.24	38 68					05	06	07	<u>08</u>	09	10	11	12								
42035*	Riesel	TX	SW-19	3.25	70														14	15	16	17	18	19	20
42036*	Riesel	TX	SW-20	3.21	70														14	15	16	17	18	19	20
42037*	Riesel	TX	Y-13	11.3	69													13	14	15	16	17	18	19	20
42038*	Riesel	TX	Y-14	5.6	69													13	14	15	16	17	18	19	
42039*	Riesel	TX	W-12	9.9	69													13	14	15	16	17	18	19	20
42040*	Riesel	TX	W-13	11.3	69													13	14	15	16	17	18	19	20
43001	Hays	KS	6L	2.85	34 38	01	02																		
43002	Hays	KS	AG	1.61	32 47	01	02																		
44001*	Hastings	NE	W-3	481.	38 67	01	02	03	04	05	<u>06</u>	07	08	09	10	11									
44002*	Hastings	NE	W-5	411.	39 67	01	02		04	05															
44003*	Hastings	NE	W-8	2,086.	39 67	01	02	03	04	05	<u>06</u>	07	08	09	10	11									
44004*	Hastings	NE	W-11	3,490.	39 67	01	02		04	05	<u>06</u>	07	08	09	10	11									
44005*	Hastings	NE	1-H	3.62	39 67	01	02		04	05	<u>06</u>	07	08	09	10	11									
44006*	Hastings	NE	2-H	3.40	39 67	01	02		04	05	<u>06</u>	07	08	09	10	11									
44007*	Hastings	NE	3-H	3.77	39 67	01	02		04	05	<u>06</u>	07	08	09	10	11									
44008*	Hastings	NE	4-H	3.64	39 67	01	02		04	05	<u>06</u>	07	08	09	10	11									
44009*	Hastings	NE	5-H	4.02	39 67	01	02		04	05	<u>06</u>	07	08	09	10	11									
44010*	Hastings	NE	6-H	4.01	39 67	01	02		04	05	<u>06</u>	07	08	09	10	11									
44011*	Hastings	NE	7-H	4.26	39 67	01	02		04	05	<u>06</u>	07	08	09	10	11									
44012*	Hastings	NE	8-H	3.97	39 67	01	02		04	05	<u>06</u>	07	08	09	10	11									
44013*	Hastings	NE	9-H	3.78	39 54	01	02																		
44014*	Hastings	NE	10-H	3.98	39 54	01	02																		
44015*	Hastings	NE	11-H	3.85	39 54	01	02																		
44016*	Hastings	NE	12-H	3.66	39 54	01	02																		
44017*	Hastings	NE	13-H	3.41	39 54	01	02																		
44018*	Hastings	NE	14-H	3.35	39 54	01	02																		

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Table 2.--Index to information on experimental agricultural watersheds
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Water-shed ident. code ^{2/}	Study location		Water-shed name-No.	Area in acres ^{3/}	Record (19--) B ₄ /E		Index to information in reference ^{1/--} (Revised References underlined) ^{5/}																					
	Town	State					01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20		
44019*	Hastings	NE	15-H	3.62	39	54	01	02																				
44020*	Hastings	NE	16-H	3.57	39	54	01	02																				
44021*	Hastings	NE	17-H	3.96	39	54	01	02																				
44022*	Hastings	NE	18-H	3.74	39	67	01	02		04	05	<u>06</u>	07	08	09	10	11											
44023*	Hastings	NE	19-H	4.10	41	54	01	02																				
44024*	Hastings	NE	20-H	4.05	41	54	01	02																				
44025*	Hastings	NE	21-H	3.94	41	54	01	02																				
44026*	Hastings	NE	22-H	3.83	41	67	01	02				<u>06</u>	07	08	09	10	11											
44027*	Hastings	NE	23-H	4.20	41	67	01	02				<u>06</u>	07	08	09	10	11											
44028*	Hastings	NE	24-H	4.21	41	54	01	02																				
44029*	Hastings	NE	25-H	2.24	63	67							07	08	09	10	11											
45001*	Safford	AZ	W-I	519.	39	76	01	02		04	05	06	<u>07</u>	08	09	10	11											
45002*	Safford	AZ	W-II	682.	39	76	01	02	03	04	05	06		<u>08</u>	09	10	11											
45003*	Safford	AZ	W-IV	764.	39	76	01	02		04	05	06		<u>08</u>	09	10	11											
45004*	Safford	AZ	W-V	723.	39	76	01	02		04	05	06	<u>07</u>	08	09	10	11											
46001	Colorado Spr.	CO	W-1	10.6	38	46	01	02																				
46002	Colorado Spr.	CO	W-2	39.7	38	46	01	02																				
46003	Colorado Spr.	CO	W-3	35.4	38	46	01	02																				
46004	Colorado Spr.	CO	W-4	35.6	38	46	01	02	03																			
47001*	Albuquerque	NM	W-I	246.	39	76	01	02	03	04	05	06		<u>08</u>	09	10	11	12										
47002*	Albuquerque	NM	W-II	40.5	39	76	01	02		04	05	06	<u>07</u>	<u>08</u>	09	10	11	12										
47003*	Albuquerque	NM	W-III	176.	39	76	01	02		04	05	06	<u>07</u>	08	09	10	11	12										
48001	Mexican Spr.	NM	W-1	187.	38	42	01	02																				
48002	Mexican Spr.	NM	W-2	610.	37	42	01	02	03																			
48003	Mexican Spr.	NM	W-3	1,325.	38	42	01	02																				
48004	Mexican Spr.	NM	W-6	5,550.	37	42	01	02	03																			
48005	Mexican Spr.	NM	W-7	8,495.	38	42	01	02																				
48006	Mexican Spr.	NM	W-8	20,910.	37	42	01	02	03																			
48007	Mexican Spr.	NM	W-10	17,220.	37	42	01	02																				
48008	Mexican Spr.	NM	W-11	46,080.	37	39	01	02	03																			
48009	Mexican Spr.	NM	W-12	2,550.	37	39	01	02																				
48010	Mexican Spr.	NM	W-13	3,360.	37	39	01	02																				
48011	Mexican Spr.	NM	W-14	3,560.	37	38	01	02																				
48012	Mexican Spr.	NM	W-15	4,740.	37	39	01	02																				
49001	Santa Fe	NM	W-I	141.	39	48	01	02	03																			
49002	Santa Fe	NM	W-II	790.	39	48	01	02																				
49003	Santa Fe	NM	W-III	51.6	39	48	01	02																				
50001	Placerville	CA	W-1	41.	35	44	01	02	03																			
51001	Santa Paula	CA	W-1	413.	38	42	01	02																				
51002	Santa Paula	CA	W-3	106.	38	42	01	02																				
51003	Santa Paula	CA	W-4	44.4	38	42	01	02																				
51004	Santa Paula	CA	W-5	55.1	38	42	01	02																				
51005	Santa Paula	CA	W-6	163.	38	42	01	02																				
51006	Santa Paula	CA	H.B.R.	735.	36	42	01	02																				
51007	Santa Paula	CA	L.A.	1,607.	34	40	01	02																				
51008	Santa Paula	CA	H.P.R.	1,832.	34	43	01	02																				
51009	Santa Paula	CA	H.A.B.	5,939.	34	37	01	02																				
52001	Sebastopol	CA	W-1	83.	36	43	01	02	03																			
52002	Sebastopol	CA	W-2	56.	36	40	01	02																				
53001	Vacaville	CA	W-I	40.	37	42	01	02																				
54001	Watsonville	CA	W-1	16.8			01	02																				
54002	Watsonville	CA	W-2	18.5			01	02																				
54003	Watsonville	CA	W-3	27.4	38	42	01	02	03																			
54004	Watsonville	CA	W-4	10.1	38	42	01	02																				
55001	Emmett	ID	W-1	219.4	38	41	01	02																				
55002	Emmett	ID	W-2	69.4	38	41	01	02	03																			

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds
included in references 1-20^{1/}

Water- shed ident, code ^{2/}	Study location		Water- shed name-No.	Area in acres ^{3/}	Record (19--) B E ^{4/}		Index to information in reference ^{1/} -- (Revised References underlined) ^{5/}																								
	Town	State					01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20					
56001*	Moscow	ID	W-1	146.8	37	42	01	02	03																						
56002*	Moscow	ID	W-2	177.9	37	42	01	02	03																						
57001	Newberg	OR	W-1	13.2	38	42	01	02	03																						
57002	Newberg	OR	W-2	21.6	38	42	01	02																							
57003	Newberg	OR	W-3	12.8	38	42	01	02	03																						
57004	Newberg	OR	W-4	6.2	38	42	01	02	03																						
58001	Dayton	WA	W-1	19.2	39	42	01	02																							
59001	Pullman	WA	S.F.P.R.	51,900.	34	40	01	02																							
59002	Pullman	WA	M.F.C.	17,600.	34	40	01	02																							
59003	Pullman	WA	F.M.C.	46,000.	34	40	01	02																							
60001	Pullman	WA	G.S.2	68.2	31	46	01	02	03																						
60002	Pullman	WA	G.S.4	2.33	31	38	01	02																							
60003	Pullman	WA	G.S.5	14.4	32	46	01	02																							
60004	Pullman	WA	G.S.6	15.2	32	46	01	02																							
60005	Pullman	WA	G.S.7	16,700.	32	38	01	02																							
60006	Pullman	WA	G.S.8	762.	34	41	01	02	03																						
60007	Pullman	WA	G.S.9	879.	41	46	01	02																							
60008	Pullman	WA	G.S.10	4,430.	41	47	01	02	03																						
61001*	Monticello	IL	IA	82.	49	59	01	02	03	04													18 19 20								
61002*	Monticello	IL	IB	45.5	49	59	01	02	03	04													18 19 20								
62001*	Oxford	MS	W-4	2,000.	57		03	04	05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18									
62002*	Oxford	MS	W-5	1,000.	57		03	04	05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18									
62003*	Oxford	MS	W-10	5,530.	57		03	04	05	<u>06</u>	07	08	09	10	11	12	13	14	15												
62004*	Oxford	MS	W-12	22,800.	57			04	05	<u>06</u>	07	08	09	10	11	12	13	14	15												
62005*	Oxford	MS	W-17	32,100.	57			04	05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18									
62006	Oxford	MS	W-19	243.	57	64		04	05	<u>06</u>	07	08																			
62007*	Oxford	MS	W-24	512.	57			04	05	<u>06</u>	07	08	09	10	11	12	13	14	15												
62008*	Oxford	MS	W-28	1,080.	57			04	05	<u>06</u>	07	08	09	10	11	12	13	14	15												
62009	Oxford	MS	W-30	113.	57	59		04																							
62010*	Oxford	MS	W-32	20,000.	57			04	05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18									
62011*	Oxford	MS	W-34	75,000.	57		03	04	05	<u>06</u>	07	08	09	10	11	12	13		15	16	17	18									
62012*	Oxford	MS	W-35	7,550.	57	77		04	05	<u>06</u>	07	08	09	10	11	12	13	14	15												
62013	Oxford	MS	WC-1	3.88	58			04	05	<u>06</u>	07	08	09	10	11																
62014*	Oxford	MS	WC-2	1.45	58			04	05	<u>06</u>	07	08	09	10	11																
62015	Oxford	MS	WC-3	1.61	58			04	05	<u>06</u>	07	08	09	10	11																
62016	Oxford	MS	WP-4	3.01	58	63		04	05	<u>06</u>	07																				
62017*	Oxford	MS	W-17A	3,200.	57			05	<u>06</u>	07	08	09	10	11	12	13	14	15													
62018*	Oxford	MS	W-35A	1,090.	57			05	<u>06</u>	07	08	09	10	11	12	13	14	15													
63001*	Tombstone	AZ	W-1	36,900.	54	74		04	05	06	<u>07</u>	08	09	10		12	13	14	15	16	17	18	19	20							
63002*	Tombstone	AZ	W-2	28,100.	54	74		04	05	06	<u>07</u>		09	10		12	13	14	15	16	17	18	19	20							
63003*	Tombstone	AZ	W-3	2,220.	54	74		04	05	06	<u>07</u>		09	10	11	12	13	14	15	16	17	18	19	20							
63004*	Tombstone	AZ	W-4	560.	54	74		04	05	06	<u>07</u>	08	09	10	11	12	13	14	15	16	17	18	19	20							
63005*	Tombstone	AZ	W-5	5,510.	54	73		04	05	06	<u>07</u>																				
63006*	Tombstone	AZ	W-6	23,500.	62	74					<u>07</u>	08	09	10		12	13	14	15												
63007*	Tombstone	AZ	6307	3,340.	66	74									10	11															
63008*	Tombstone	AZ	6308	3,830.	63	74							08	09	10		12	13	14	15	16	17	18	19	20						
63011*	Tombstone	AZ	6311	2,035.	63	74							08	09	10		12	13	14	15	16	17	18	19	20						
63015*	Tombstone	AZ	6315	5,912.	65	74								09	10	11	12	13	14	15	16	17	18	19	20						
63103*	Tombstone	AZ	63103	8.3	65										10	11	12				16	17	18	19	20						
63111	Tombstone	AZ	63111	143.	62	68									10	11	12														
64001*	Santa Rosa	NM	W-1	42,880.	55	79		04	05	06	07	08	09	10		12	13	14	15	16	17	18	19	20							
65002	Newell	SD	W-2	115.	58	73		04	05	06	07	08	09	10	11	12	13	14	15	16											
65003	Newell	SD	W-3	90.	58	61		04	05																						
65004	Newell	SD	W-4	105.	58	61		04	05																						
65005	Newell	SD	W-5	46.	58	73		04	05	06	07	08	09	10	11	12	13	14	15	16											
65006	Newell	SD	W-6	30.	58	61		04	05																						

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds
included in references 1-20^{1/}

Water- shed ident, code ^{2/}	Study location		Water- shed name-No.	Area in acres ^{3/}	Record (19--) B ^{4/} E ^{5/}	Index to information in reference ^{1/} -- (Revised References underlined) ^{5/}																						
	Town	State				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20			
65007	Newell	SD	W-7	160.	58 73				04	<u>05</u>	06	07	08	09	10	11	12	13	14	15	16							
65008	Newell	SD	W-8	160.	58 61				04	<u>05</u>																		
65009	Newell	SD	W-9	815.	58 61				04	<u>05</u>																		
65010	Newell	SD	W-10	280.	58 61				04	<u>05</u>																		
65011	Newell	SD	W-11	160.	58 61				04	<u>05</u>																		
65012	Newell	SD	W-12	90.	58 73				04	<u>05</u>	06	07	08	09	10	11	12	13	14	15	16							
65013	Newell	SD	W-13	160.	58 73				04	<u>05</u>	06	07	08	09	10	11	12	13	14	15	16							
65014	Newell	SD	W-14	35.	58 73				04	<u>05</u>	06	07	08	09	10	11	12	13	14	15	16							
65015	Newell	SD	W-15	115.	58 73				04	<u>05</u>	06	07	08	09	10	11	12	13	14	15	16							
65016	Newell	SD	W-16	13,000.	58 61				04	<u>05</u>																		
66001*	Moorefield	WV	W-1	8.57	58 67				04	05	<u>06</u>	07	08	09	10	11												
66002*	Moorefield	WV	W-2	9.73	58 67				04	05	<u>06</u>	07	08	09	10	11												
66004*	Moorefield	WV	W-4	6.32	58 67				04	05	<u>06</u>	07	08	09	10	11												
66005*	Moorefield	WV	W-5	9.55	58 67				04	05	<u>06</u>	07	08	09	10	11												
67001*	N. Danville	VT	W-1	10,610.	58 76				04	05	06	07	08				11	12	13	14	15	16	17					
67002*	N. Danville	VT	W-2	146.	58 78				04	05	06	07	08				11	12	13	14	15							
67003*	N. Danville	VT	W-3	2,067.	60					05	06	07	08				11	12	13	14	15	16	17					
67004*	N. Danville	VT	W-4	10,752.	60 74												11	12	13	14	15	16	17					
67005*	N. Danville	VT	W-5	27,469.	60 79					05	06	07	08				11	12	13	14	15	16	17					
68001*	Reynolds	ID	W-1	57,700.	63								07	08	09	10	11	12	13	14	15	16	17	18	19	20		
68002*	Reynolds	ID	W-2	8,990.	65										09	10	11	12	13	14	15	16	17	18	19	20		
68003*	Reynolds	ID	W-3	7,846.	66												10	11	12	13	14	15	16	17	18	19	20	
68004*	Reynolds	ID	W-4	13,453.	67													11	12	13	14	15	16	17	18	19	20	
68011*	Reynolds	ID	W-11	306.	67 78													11	12	13	14	15	16	17	18	19	20	
68012*	Reynolds	ID	W-12	205.	67 77													11	12	13	14	15	16	17	18	19		
68013*	Reynolds	ID	W-13	100.	63											10	11	12	13	14	15	16	17	18	19	20		
68014*	Reynolds	ID	W-14	33.	67													11	12	13	14	15	16	17	18	19	20	
69001*	Chickasha	OK	100	2,339,800.	61 79						06	07	08	09	10	11	12	13	14	15	16	17	18	19	20			
69002*	Chickasha	OK	200	(d)2,612,500. (e) 273,000.	61 75						06	07	08	09	10	11	12	13	14	15	16	17	18					
69004*	Chickasha	OK	400	(d)2,725,760. (e) 112,910.	61 68						06	07	08	09	10													
69005*	Chickasha	OK	500	(d)2,769,920. (e) 43,840.	64 78									08	09	10	11	12	13	14	15	16	17	18	19	20		
69006*	Chickasha	OK	600	(d)3,011,800. (e) 243,050.	63 72						07	08	09	10	11	12	13	14										
69007*	Chickasha	OK	700	(d)3,061,120. (e) 50,830.	61 78						06	07	08	09	10	11	12	13	14	15	16	17	18	19	20			
69008*	Chickasha	OK	611	4,845.	61 74						06	07	08	09				13	14	15	16	17	18					
69009*	Chickasha	OK	512	563.	61 74						06	07	08	09	10	11	12	13	14	15	16	17	18					
69010*	Chickasha	OK	111	16,634.	62 78						06	07	08	09	10	11	12	13	14	15	16	17	18	19	20			
69011*	Chickasha	OK	131	25,660.	62 78						06	07	08	09	10	11	12	13	14	15	16	17	18	19	20			
69012*	Chickasha	OK	411	33,330.	62 74						06	07	08	09	10	11	12	13	14	15	16	17	18					
69013*	Chickasha	OK	511	38,020.	62 78						06	07	08	09	10	11	12	13	14	15	16	17	18	19	20			
69014*	Chickasha	OK	110	25,020.	63 78							07	08	09	10	11	12	13	14	15	16	17	18	19	20			
69015*	Chickasha	OK	522	132,990.	63							07	08	09	10	11	12	13	14	15	16	17	18	19	20			
69016*	Chickasha	OK	512	22,530.	63 78							07	08	09	10	11	12	13	14	15	16	17	18	19	20			
69017*	Chickasha	OK	621	21,310.	63							07	08	09	10	11	12	13	14	15	16	17	18	19	20			
69018*	Chickasha	OK	121	131,780.	63 74						07	08	09	10	11	12	13	14	15	16	17	18						
69019*	Chickasha	OK	513	12,314.	65 78									09	10	11	12	13	14	15	16	17	18	19	20			
69020	Chickasha	OK	514	7,225.	67 78														11									
69021	Chickasha	OK	5141	4,064.	67 78														11									
69022	Chickasha	OK	5142	360.	67 74														11									
69023	Chickasha	OK	5143	485.	67 74														11									
69024	Chickasha	OK	5144	1,456.	67 78														11									
69025	Chickasha	OK	5145	253.	67 78														11									
69026	Chickasha	OK	5146	762.	67 78														11									
69027*	Chickasha	OK	311	15,206.	67 78														11	12	13	14	15	16	17	18	19	20
69028*	Chickasha	OK	515	1,657.	73																		17	18	19	20		
69030*	Chickasha	OK	C-1	17.8	65 76										09	10	11	12	13	14	15	16	17	18	19	20		
69031*	Chickasha	OK	C-2	32.5	62 75										09	10	11	12	13	14	15	16	17	18				

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds
included in references 1-20^{1/}

Water-shed ident. code ^{2/}	Study location		Water-shed name-No.	Area in acres ^{3/}	Record (19--) B ^{4/} E		Index to information in reference ^{1/} -- (Revised References underlined) ^{5/}																					
	Town	State					01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20		
69032*	Chickasha	OK	C-3	44.3	65	76									09	10	11	12	13	14	15	16	17	18	19	20		
69033*	Chickasha	OK	C-4	29.9	65	76									09	10	11	12	13	14	15	16	17	18	19	20		
69034*	Chickasha	OK	C-5	12.8	65	76									09	10	11	12	13	14	15	16	17	18	19	20		
69035*	Chickasha	OK	C-6	13.0	65	76									09	10	11	12	13	14	15	16	17	18	19	20		
69036*	Chickasha	OK	C-7	26.5	65	76									09	10	11	12	13	14	15	16	17	18	19	20		
69037*	Chickasha	OK	C-8	27.3	65	76									09	10	11	12	13	14	15	16	17	18	19	20		
69038	Chickasha	OK	R-1	17.8	62	74									09	10	11	12	13	14	15	16	17	18				
69039	Chickasha	OK	R-2	24.1	62	74									09	10	11	12	13	14	15	16	17	18				
69040	Chickasha	OK	R-3	25.8	62	74									09	10	11	12	13	14	15	16	17	18				
69041	Chickasha	OK	R-4	18.1	62	74									09	10	11	12	13	14	15	16	17	18				
69042*	Chickasha	OK	R-5	23.7	66	78									10	11	12	13	14	15	16	17	18	19	20			
69043*	Chickasha	OK	R-6	27.2	66	78									10	11	12	13	14	15	16	17	18	19	20			
69044*	Chickasha	OK	R-7	19.2	66	78									10	11	12	13	14	15	16	17	18	19	20			
69045*	Chickasha	OK	R-8	27.6	66	78									10	11	12	13	14	15	16	17	18	19	20			
70001*	Sonora	TX	W-14	30,720.	61	73										11	12	13	14	15	16							
70002*	Sonora	TX	S-9	1,774.	61	73										11	12	13	14	15	16							
70003*	Sonora	TX	S-10	5,392.	61	73										11	12	13	14	15	16							
70004*	Sonora	TX	S-11	10,787.	61	73										11	12	13	14	15	16							
70005*	Sonora	TX	S-12	2,801.	61	73										11	12	13	14	15								
70006*	Sonora	TX	S-13	686.	61	73										11	12	13	14	15	16							
70007*	Sonora	TX	W-1	10.2	63	75										11	12	13	14	15	16							
70008*	Sonora	TX	W-2	8.6	65	75										11	12	13	14	15	16							
70009*	Sonora	TX	W-3	6.7	65	75										11	12	13	14	15	16							
70010*	Sonora	TX	W-4	4.5	66	75										11	12	13	14	15	16							
70011*	Sonora	TX	W-5	7.2	66	75										11	12	13	14	15	16							
70012*	Sonora	TX	W-6	6.9	66	75										11	12	13	14	15	16							
70013*	Sonora	TX	W-7	12.2	65	73										11	12	13	14	15	16							
71001*	Treynor	IA	W-1	74.5	64									08	09	10	11	12	13	14	15	16	17	18	19	20		
71002*	Treynor	IA	W-2	82.8	64									08	09	10	11	12	13	14	15	16	17	18	19	20		
71003*	Treynor	IA	W-3	107.	64									08	09	10	11	12	13	14	15	16	17	18	19	20		
71004*	Treynor	IA	W-4	150.	64									08	09	10	11	12	13	14	15	16	17	18	19	20		
71005*	Treynor	IA	W-5	389.	63	73								08	09	10	11	12	13	14	15							
72001*	Cottonwood	SD	H-2	2.13	63	73									09	10	11	12	13	14	15	16						
72002*	Cottonwood	SD	L-2	2.38	63	73									09	10	11	12	13	14	15	16						
72005*	Cottonwood	SD	M-1	2.35	63	73									09	10	11	12	13	14	15	16						
73002*	Fort Staunton	NM	7302	32.2	66											10												
74002*	Tifton	GA	W-TB	82,624.	69																				19	20		
74003*	Tifton	GA	W-TN	3,872.	68																				19	20		
74004*	Tifton	GA	W-TO	3,936.6	68																				19	20		
74005*	Tifton	GA	W-TF	28,403.8	68																				19	20		
74006*	Tifton	GA	W-TI	12,358.	68																				19	20		
74007*	Tifton	GA	W-TJ	5,466.	70																				19	20		
74008*	Tifton	GA	W-TK	4,141.	68																				19	20		
74009*	Tifton	GA	W-TM	672.	68																				19	20		
75001*	Ahoskie	NC	W-A1	36,480.	64	74									09	10	11	12	13	14	15	16						
75002*	Ahoskie	NC	W-A2	15,360.	64	74									09	10	11	12	13	14	15	16						
75003*	Ahoskie	NC	W-A3	2,368.	64	74									09	10	11	12	13	14	15	16						
75004*	Ahoskie	NC	W-A4	1,664.	64	74									09	10	11	12	13	14	15	16						

^{1/}For description of references 1-20, see page 1 and table 1.

^{2/}* = streamflow data for all or part of record period are stored in ARS Water Data Bank.

^{3/}(a) area changed from 63,170 acres (1-1-1967).

(b) area changed from 10,050 acres (1-1-1967).

(c) area changed from 22,656 acres (1-1-1967).

(d) = total drainage area.

(e) = total study area.

^{4/}B = year (19--) record began; E = year (19--) record ended.

^{5/}Reference in which additional or revised watershed information has been included.

longitude when available, and the size of the watershed. In the space to the right of the first table title, MONTHLY PRECIPITATION AND RUNOFF (inches), the location and watershed number (or designation) are given.

In the table for the current calendar year, the precipitation (P) in inches is given in the monthly columns and the yearly total in the last column, headed annual. In the line below, the corresponding runoff (Q) in inches is similarly given for each month and the total for the year. For some watersheds, data are included for years prior to the current year. Underneath, in two lines, are given the (P) and (Q) station average amounts (STA AV) by months, with average annual total for the period of record.

In the second table, entitled ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS, data are also given for the calendar year listed in the first column. Under the maximum discharge heading, the date column shows the month and day that the instantaneous peak in inches per hour occurred. In computing this rate, corrections were made, where needed, for any significant pondage above the runoff-measuring device. Under the maximum volume heading, the date refers to the month and day on which the interval began; for example, if the interval began August 30 at 2359, the entry in the date column would be 8-30. The depths for 1 hour to 8 days are the annual maximum values recorded, without regard to entire clock hours or days; thus, if the 6-hour interval began at 1332, the interval would end exactly 6 hours later at 1932. The volume given is in inches of average depth over the watershed for each of the seven selected time intervals (1, 2, 6, and 12 hours and 1, 2, and 8 days). In the last section of the table, the maximum discharges and depths for the various periods are given under MAXIMUMS FOR PERIOD OF RECORD.

Notes and footnotes below the first two tables include (1) a general statement as to watershed conditions and other physical changes for the period covered; (2) location (publication) where the most recent map may be found; (3) length of precipitation and runoff records; and (4) location of the nearest longtime National Weather Service precipitation station together with the record length.

For some watersheds, tables of daily air temperature (maximum and minimum in degrees Fahrenheit), daily precipitation (inches), and mean daily discharge (cfs) are next, with explanation of the data in footnotes at the end of each table. The multiplier to convert mean daily discharge in cubic feet per second to inches per day is given as the first note following the mean daily discharge table. Cooperating agencies are identified at the bottom of the first page for each watershed just above the index page number.

If no daily tables are given, the tabular data for selected runoff events begin in the remaining space on the first page and are carried forward on continuation sheets (or pages) until completed. In general, the selected runoff events were those in which runoff was produced by a relatively uniform rainfall excess of short duration. The information for each event includes tabulation of (1) antecedent rainfall and runoff that occurred on the day of the event prior to the beginning of the event, (2) rainfall intensities and accumulated amounts for the event, (3) runoff rates and accumulated amounts for the event, and (4) specific watershed conditions at the time of the event.

Simple graphs of rainfall and runoff rates for all events follow the tabular data. Runoff rates expressed in both cubic feet per second (CFS) and inches per hour (IN/HR) are shown on the graphs. Some very low runoff rates expressed in IN/HR are given in the "E" format, such as 7.25 E-4, which is equal to 0.000725 IN/HR.

Maps follow the graphs unless previously published in references 3-19 or unless shown herein on the map of another watershed.

In the Notes at the bottom of the first page for runoff events, the multiplier to convert runoff rates in cubic feet per second

to inches per hour is given. The notes on continuation pages contain the statement on the multiplier and similar explanations of the data on each page.

New Watersheds

For the watersheds installed in recent years and not reported previously (see table 3), the presentation begins with the watershed description in the upper part of the first page. The explanations and definitions on which the description is based are given in the next section.

The first line, centered at the top of the sheet, indicates the project location, which is the nearest city or town, the number or name of the watershed used locally, and the latitude and longitude of the stream gage. The descriptive material is then given under the 12 major topics listed generally down the left side of the sheet: Location, Area, Slopes, Soils, Erosion, Land Capability, Watershed Geology, Surface Drainage, Character of Flow, Instrumentation, Watershed Conditions, and Generally Represents.

After this description, the tabular data are summarized in the first two tables and data are included as previously described for contributing watersheds. The tabular data for daily air temperature, precipitation, and discharge, if presented, precede the tabular data for SELECTED RUNOFF EVENTS. The rest of the material of this series for this particular watershed follows in the same order as previously indicated.

WATERSHED DESCRIPTIONS

The following definitions and explanations were used in describing watershed location, watershed characteristics, instrumentation, land management, and recommended area of application of the hydrologic data.

LOCATION gives county and State, distance and direction of the runoff gaging station from the nearest city or town, the major river basin in which it lies, and latitude and longitude. When two or more basins are involved, the tributary or subbasin is mentioned first, followed by the major basin.

AREA of watershed is given in acres if less than 640 acres and in both acres and square miles if more than 1 square mile. If areas are revised, additional values are included with notes identifying the date of change.

SLOPES are given in terms of the ranges commonly used in survey work in the locality. The percentages of the watershed lying in each slope class are listed. As an example, 8% is in 0-2% class means that 8 percent of the watershed area has slopes ranging from 0 to 2 percent.

SOILS are described briefly, according to definitions from the U.S. Department of Agriculture's "Soil Survey Manual," Agriculture Handbook 18, published in 1951. Soil descriptions are given for the new watersheds. Soil-type name consists of the soil series plus the textural class, determined primarily by the texture of the upper part of the soil profile.

Soil texture refers to the relative proportions of the various size groups (or separates) of individual soil grains in a mass of soil. Specifically it refers to the proportions of clay, silt, and sand less than 2 mm in diameter. The various classes of texture in order of increasing percentages of the smaller size groups are (1) sand, (2) loamy sand, (3) sandy loam, (4) loam, (5) silt loam, (6) silt, (7) sandy clay loam, (8) clay loam, (9) silty clay loam, (10) sandy clay, (11) silty clay, and (12) clay. In some of the descriptions the broader classification of coarse, moderately coarse, medium, moderately fine, or fine has been used—the coarse soils are the sands and the fine soils the clays.

Soil structure refers to the aggregation of primary soil particles into compound particles, or clusters of primary particles, that are separated from adjoining aggregates by surfaces of weakness. Structure grade, or the durability of the aggregates when subjected to disturbance, is described as structureless, weak, moderate, or strong. For some soils the structureless grade is described as massive, if coherent, or

single grain, if noncoherent. The size of the aggregates is reported as very fine, fine, medium, coarse, or very coarse. Structure shape is given as being platy, prismatic, columnar, angular blocky, subangular blocky, granular, or crumb.

Permeability is the quality of a soil that enables it to transmit water or air. This quality is indicated by the terms very slow, slow, moderately slow, moderate, moderately rapid, rapid, or very rapid.

Internal soil drainage is the quality of a soil that permits the downward flow of excess water through it. Internal drainage is reflected in the frequency and duration of periods of saturation with water. It is determined by the texture, structure, and other characteristics of the soil profile and of underlying layers and by the height of the water table, either permanent or perched, in relation to the water added to the soil. Internal drainage is described as none, very slow, slow, medium, rapid, or very rapid.

Soils may be grouped into soil drainage classes, based on observations and inferences used to obtain classes of runoff, soil permeability, and internal soil drainage. These classes are given in some soils descriptions to identify internal drainage. They are very poorly drained, poorly drained, imperfectly or somewhat poorly drained, moderately well drained, well drained, somewhat excessively drained, or excessively drained.

EROSION conditions on the watershed are described according to the following classification for water and wind erosion, also briefed from Agriculture Handbook 18. The percentage of the watershed in the following erosion classes is given.

Class 1.—The soil has a few rills or places with thin A horizons that give evidence of accelerated erosion, but not to an extent to alter greatly the thickness and character of the A horizon. Except for soils having very thin A horizons (less than 8 inches), the surface soil consists entirely of A horizon throughout nearly all the delineated areas. Up to about 25 percent of the original A horizon, or original plowed layer in soils with thin A horizons, has been removed from most of the area. This class also includes the areas with no erosion.

Class 2.—The soil has been eroded to the extent that ordinary tillage implements reach through the remaining A horizon or well below the depth of the original plowed layer in soils with thin A horizons. Generally the plowed layer consists of a mixture of the original A horizon and the underlying horizons. Mapped areas of eroded soil usually have patches in which the plowed layer consists entirely of the original A horizon and others in which it consists entirely of underlying horizons. Shallow gullies may be present. Approximately 25 to 75 percent of the original A horizon or surface soil may have been lost from most of the area.

Class 3.—The soil has been eroded to the extent that all or practically all the original surface soil, or A horizon, has been removed. The plowed layer consists essentially of materials from the B or other underlying horizons. Patches in which the plowed layer is a mixture of the original A horizon and the B horizon, or other underlying horizons, may be included within mapped areas. Shallow gullies, or a few deep ones, are common in some soil types. Approximately 75 percent of the original surface soil, or A horizon, and commonly part or all the B horizon, or other underlying horizons, have been lost from most of the area.

Class 4.—The land has been eroded until it has an intricate pattern of moderately deep or deep gullies. Soil profiles have been destroyed except in small areas between the gullies. Such land is not useful for crops in its present condition. Reclamation for crop production or for improved pasture is difficult, but may be practicable if other characteristics of the soil are favorable and erosion can be controlled.

Class +.—Recent alluvial and colluvial deposition.

LAND CAPABILITY is given as classified by Klingebiel and Montgomery in U.S. Department of Agriculture's "Land-

Capability Classification," Agriculture Handbook 210, published in 1961. The classification expresses the suitability of land for use without deterioration. The eight land-capability classes are distinguished according to the risk of land damage or difficulty of land use. Classes I-IV are suitable for cultivation and other uses, whereas classes V-VIII are not suitable for cultivation.

Class I.—Very good land for cultivation; nearly level and productive; not subject to erosion; needs only ordinary good farming methods.

Class II.—Good land for cultivation; mostly gently sloping; not more than moderately subject to erosion; some land may be rather wet; can be farmed safely with easily applied practices.

Class III.—Moderately good land for cultivation; mostly moderately sloping; some areas too wet or too dry; can be farmed safely with practical conservation measures, carefully applied; usually a combination of two or more measures is needed.

Class IV.—Fairly good land, suitable for occasional cultivation; generally strongly sloping; often shallow or very sandy; often found in dry climate.

Class V.—Land very well suited for grazing or forestry; requires good range or woodland management.

Class VI.—Land well suited for grazing or forestry; steeply sloping land, or stony or shallow soil; eroded, droughty, or wet land; requires careful management.

Class VII.—Land fairly well suited for grazing or forestry; severely limited in use by such factors as very steep slope, shallow or droughty soil, wetness, severe erosion, or excessive salinity; requires very careful management.

Class VIII.—Land not suitable for cultivation, grazing, or forestry; may be useful for wildlife, recreation, or protection of water supplies.

WATERSHED GEOLOGY information, when available, for new watersheds is reported here. The parts of each watershed occupied by various geological formations or series are briefly described, together with strike and dip of the strata, thickness, and relative position, when known. Faults, perched water tables, outcrops, if present, and other details relating to the movement of water within the drainage area or affecting the hydrology of the watershed are described.

SURFACE DRAINAGE refers to the ease with which excess water flows from the watershed area. The length of the principal waterway is the distance from the gaging station to the most remote point on the watershed boundary, measured along the flood plain of the watercourse.

CHARACTER OF FLOW describes the flow of the principal watercourse with respect to permanence and space. The following definitions are from Meinzer's "Outline of Ground-Water Hydrology," U. S. Geological Survey Water-Supply Paper 494, published in 1923. As to permanence, streams may be divided into perennial, intermittent, and ephemeral. A perennial stream, or stretch of a stream, flows continuously. Perennial streams are generally fed in part by springs, and their upper surfaces usually stand lower than the water table in the localities through which they flow.

Intermittent streams may be divided, with respect to their water source, into spring-fed intermittent streams and surface-fed intermittent streams. They also flow in direct response to precipitation.

A spring-fed intermittent stream, or stretch of a stream, flows only at certain times when it receives water from springs. The intermittent character of streams of this type is generally caused by fluctuations of the water table, whereby the stream channels stand sometimes below and other times above the water table. This is the ordinary type of intermittent stream.

A surface-fed intermittent stream, or stretch of a stream, flows during protracted periods when it receives water from some surface source, generally the gradual and long-continued melting of snow in a mountainous or other cold tributary area. The term may be arbitrarily restricted to streams or stretches of streams that flow continuously during periods of at least 1 month.

An ephemeral stream, or stretch of a stream, flows only in direct response to precipitation. It receives no water from springs and no long-continued supply from melting snow or other surface source. Its stream channel is at all times above the water table. The term may be arbitrarily restricted to streams or stretches of streams that do not flow continuously for as long as 1 month.

With respect to continuity in space, streams may be divided into continuous and interrupted streams. An interrupted stream contains (1) perennial stretches with intervening, intermittent, or ephemeral stretches or (2) intermittent stretches with intervening ephemeral stretches. These two classes of interrupted streams are designated, respectively, perennial interrupted streams and intermittent interrupted streams. A continuous stream does not have interruptions in space. It may be perennial, intermittent, or ephemeral, but it does not habitually have wet and dry stretches.

INSTRUMENTATION describes the type of runoff control or measuring device, number and type of precipitation gages, type of charts used, and snow courses, if employed.

WATERSHED CONDITIONS describe the general use and farm, forest, or range practices before the period of record and the conservation measures, crops, yields, and general cultural operations and practices during the period of record. Rotation crops are listed in the order grown. Operations are described with commonly used agricultural terms, and only those that appear to have a significant relationship to the hydrology of the watershed are mentioned.

GENERALLY REPRESENTS gives the broad area of application for which the data of the specific watershed are recommended. The land resource areas named are those delineated on the map titled "Location of Experimental Agricultural Watersheds of the Agricultural Research Service," on pages 20 and 21. Solid circles show the approximate locations of the continuing or new watersheds; open circles show approximate locations of the discontinued studies. For a few studies the circles indicate the locations of the project headquarters instead of the watershed locations. A larger index map with more detail is included in reference 4.

For some studies there is an apparent contradiction between the watershed location on the maps and the descriptive information under Generally Represents. This is caused by the small scale of maps; it is difficult to show many small local variations in boundaries of the land resources areas. The descriptive statements, instead of the map location, should be the guide to the application of the data.

STANDARD SYMBOLS FOR TABULAR DATA

The following capital letters have been used as standard symbols throughout this publication to designate specific items or meanings:

Symbol	Meaning
E	- value is estimated or partially estimated.
H	- precipitation in form of hail.
L	- precipitation in form of sleet or freezing rain.
M	- mixed precipitation in form of rain, snow, and sleet.
N	- precipitation in form of rain and snow.
NR	- when used in place of value, "no record."
P	- monthly or annual precipitation in inches.
Q	- monthly or annual runoff in inches.
RG	- rain gage, generally followed by gage number.
S	- precipitation in form of snow.

STA AV (or AVG) - station average for period of record.

T - trace, indicates that the value is not large enough to round to the lowest significant digit. In some arrays a trace value is indicated by all zeros, with more than one zero located to the right of the decimal.

Z - indicates an accurately measured total for a series of days that has been equally divided among coded days.

Time-of-day symbols or designations a, p, m, and n used in previous publications through 1961 have been discontinued, and military time (0001 through 2400) has been substituted in subsequent publications. Unless stated otherwise, time used in tables is eastern, central, mountain, or Pacific standard, whichever applies to the given location.

PERSONNEL RESPONSIBLE FOR DATA PREPARATION

At each research location many individuals have contributed to the planning and establishment of the watershed and the collection, compilation, and analysis of the data. Some of those who were directly responsible for preparing the data and information for this report are—

	Location
C. A. Burroughs, J. M. Sheridan, H. D. Wade, P. Yates	8
A. P. Barnett, A. W. Thomas, M. Murphy.	10
R. N. Weaver.	16
L. A. Kramer, M. Mazzocco	25, 71
T. J. Harlukowicz, V. Dreher.	26
F. R. Crow, B. Wilson, W. R. Gwinn.	37
C. W. Richardson, D. A. Wright.	42
J. K. Mitchell.	61
F. Lopez.	63, 64
A. L. Huber, S. Jackson	68
D. E. Gregory, A. D. Nicks, R. R. Schoof, N. H. Welch.	69
C. A. Burroughs, J. M. Sheridan, R. G. Williams, P. Yates.	74

ADDITIONAL PUBLICATIONS

In references 1 and 4-19 (see pp. 1 and 2), citations to other publications, which present watershed data and interpretations of results in various journals, bulletins, and periodicals, are given at the end of the introduction for many of the locations. A listing of publications resulting from related work follows. Unless otherwise noted, the publication year is 1976. The scope of the selected publications varies from a specific study to an overall program of hydrology.

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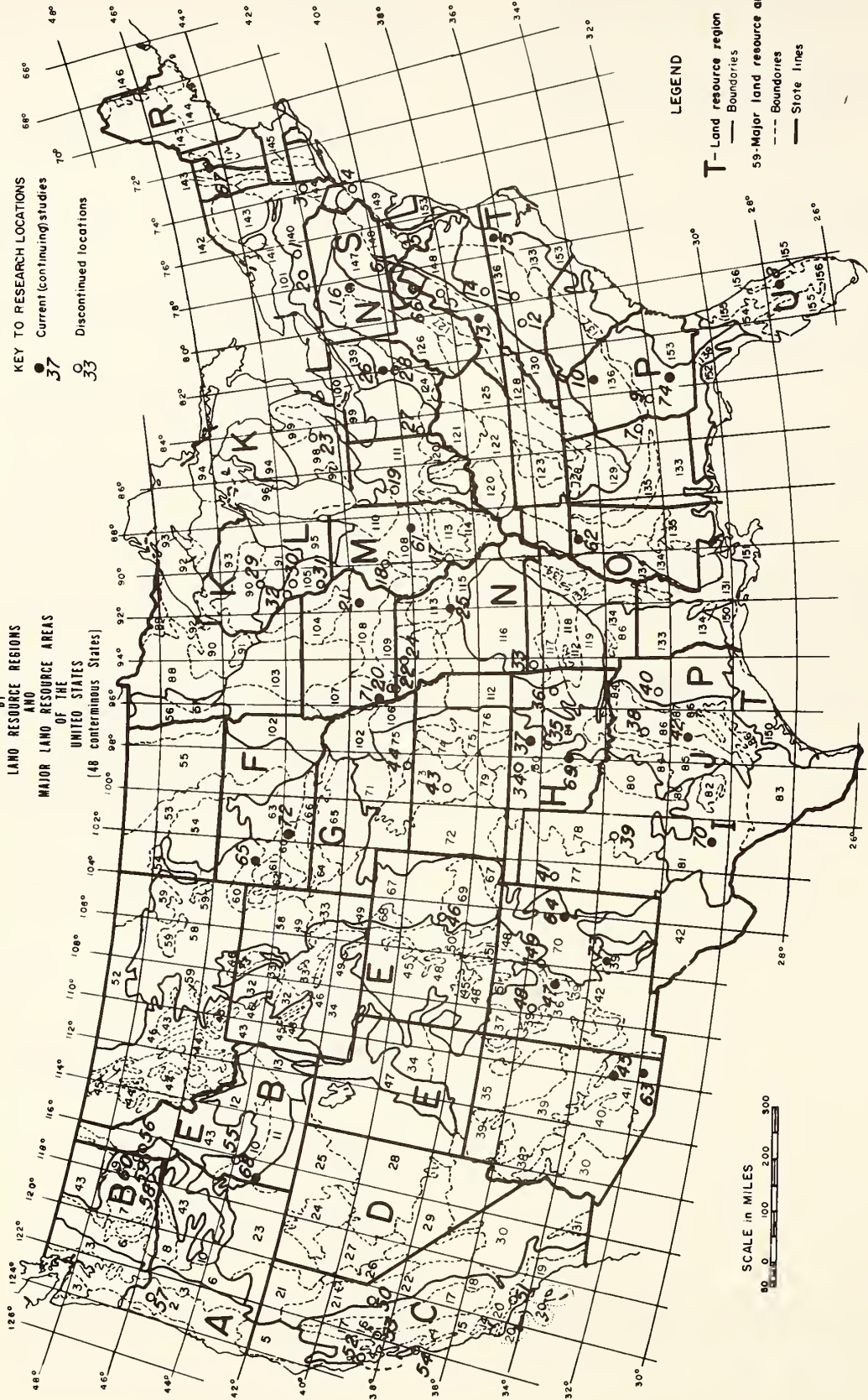
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[Pages 18 through 20]

LOCATION OF EXPERIMENTAL AGRICULTURAL WATERSHEDS OF THE AGRICULTURAL RESEARCH SERVICE (1975)

BY
LAND RESOURCE REGIONS
AND
MAJOR LAND RESOURCE AREAS
OF THE
UNITED STATES
(48 contiguous States)

- KEY TO RESEARCH LOCATIONS
- Current (continuing) studies 37
 - Discontinued locations 33



LEGEND

- T - Land resource region
- Boundaries
- SS - Major land resource area
- Boundaries
- State lines

LEGEND FOR LAND RESOURCE REGIONS AND MAJOR LAND RESOURCE AREAS (of the 48 conterminous States)

A

NORTHWESTERN FOREST, FORAGE, AND SPECIALTY CROP REGION

- 1 Northern Pacific Coast Range and Valleys
- 2 Willamette and Puget Sound Valleys
- 3 Olympic and Western Slope Cascade Mountains
- 4 California Coastal Redwood Belt
- 5 Stikine-Tinny Area

B

NORTHWESTERN WHEAT AND RANGE REGION

- 6 Eastern Slope Cascade Mountains
- 7 Columbia Basin
- 8 Columbia Plateau
- 9 Palouse and Nez-Perce Prairies
- 10 Upper Snake River Lava Plains and Hills
- 11 Snake River Plains
- 12 Lost River Valleys and Mountains
- 13 Eastern Idaho Plateaus

C

CALIFORNIA SUBTROPICAL FRUIT, TRUCK, AND SPECIALTY CROP REGION

- 14 Central California Valleys
- 15 Central California Coast Range
- 16 California Delta
- 17 Sacramento and San Joaquin Valleys
- 18 Sierra Nevada Foothills
- 19 Southern California Coastal Plain
- 20 Southern California Mountains

D

WESTERN RANGE AND IRRIGATED REGION

- 21 Klamath and Shasta Valleys and Basins
- 22 Sierra Nevada Range
- 23 Malheur High Plateau
- 24 Humboldt Area
- 25 Owyhee High Plateau
- 26 Carson Basin and Mountains
- 27 Fallon-Lovelock Area
- 28 Great Salt Lake Area
- 29 Southern Nevada Basin and Range
- 30 Sonoran Basin and Range
- 31 Imperial Valley
- 32 Northern Intermountain Desertic Basins
- 33 Semiarid Rocky Mountains
- 34 Central Desertic Basins, Mountains and Plateaus
- 35 Colorado and Green River Plateaus
- 36 New Mexico and Arizona Plateaus and Mesas
- 37 San Juan River Valley Mesas and Plateaus
- 38 Black, Hualapai, and Cerbat Mountains
- 39 Arizona and New Mexico Mountains
- 40 Central Arizona Basin and Range
- 41 Southeastern Arizona Basin and Range
- 42 Southern Desertic Basins, Plains and Mountains

E

ROCKY MOUNTAIN RANGE AND FOREST REGION

- 43 Northern Rocky Mountains
- 44 Northern Rocky Mountain Valleys
- 45 Alpine Meadows and Ruckland
- 46 Northern Rocky Mountain Foothills
- 47 Wasatch and Uinta Mountains
- 48 Southern Rocky Mountains
- 49 Southern Rocky Mountain Foothills
- 50 San Luis Valley
- 51 High Intermountain Valleys

F

NORTHERN GREAT PLAINS SPRING WHEAT REGION

- 52 Brown Glaciated Plain
- 53 Dark Brown Glaciated Plain
- 54 Rolling Soft Shale Plain
- 55 Black Glaciated Plains
- 56 Red River Valley of the North
- 57 Western Minnesota Forest-Prairie Transition

G

WESTERN GREAT PLAINS RANGE AND IRRIGATED REGION

- 58 Northern Rolling High Plains
- 59 Northern Smooth High Plains
- 60 Pierre Shale Plains and Badlands
- 61 Black Hills Foothills
- 62 Black Hills
- 63 Rolling Pierre Shale Plains
- 64 Mixed Sandy and Silty Tableland
- 65 Nebraska Sand Hills
- 66 Dakota-Nebraska Eroded Tableland
- 67 Central High Plains
- 68 Irrigated Upper Platte River Valley
- 69 Upper Arkansas Valley Rolling Plains
- 70 Pecos-Canadian Plains and Valleys

H

CENTRAL GREAT PLAINS WINTER WHEAT AND RANGE REGION

- 71 Central Nebraska Loess Hills
- 72 Central High Tableland
- 73 Rolling Plains and Breaks
- 74 Central Kansas Sandstone Hills
- 75 Central Loess Plains
- 76 Bluestem Hills
- 77 Southern High Plains
- 78 Central Rolling Red Plains
- 79 Great Bend Sand Plains
- 80 Central Rolling Red Prairies

I

SOUTHWESTERN PLATEAUS AND PLAINS, RANGE, AND COTTON REGION

- 81 Edwards Plateau
- 82 Texas Central Basin
- 83 Rio Grande Plain

J

SOUTHWESTERN PRAIRIES, COTTON, AND FORAGE REGION

- 84 Grass Timbers
- 85 Grand Prairie
- 86 Texas Blackland Prairie
- 87 Texas Claypan Area

K

NORTHERN LAKE STATES FOREST AND FORAGE REGION

- 88 Northern Minnesota Swamps and Lakes
- 89 Minnesota Rockland Hills
- 90 Central Wisconsin and Minnesota Thin Loess and Till
- 91 Wisconsin and Minnesota Sandy Outwash
- 92 Superior Lake Plain
- 93 Northern Michigan and Wisconsin Stony, Sandy, and Rocky Plains and Hills
- 94 Northern Michigan Sandy Drift

L

LAKE STATES FRUIT, TRUCK, AND DAIRY REGION

- 95 Southeastern Wisconsin Drift Plain
- 96 Western Michigan Fruit Belt
- 97 Southwestern Michigan Fruit and Truck Belt
- 98 Southern Michigan Drift Plain
- 99 Erie-Huron Lake Plain
- 100 Erie Fruit and Truck Area
- 101 Ontario-Mohawk Plain

M

CENTRAL FEED GRAINS AND LIVESTOCK REGION

- 102 Loess, Till, and Sandy Prairies
- 103 Central Iowa and Minnesota Till Prairies
- 104 Eastern Iowa and Minnesota Till Prairies

(continued)

- 105 Northern Mississippi Valley Loess Hills
- 106 Nebraska and Kansas Loess-Drift Hills
- 107 Iowa and Missouri Deep Loess Hills
- 108 Illinois and Iowa Deep Loess and Drift
- 109 Iowa and Missouri Heavy Till Plain
- 110 Northern Illinois and Indiana Heavy Till Plain
- 111 Indiana and Ohio Till Plain
- 112 Cherokee Prairies
- 113 Central Claypan Areas
- 114 Southern Illinois and Indiana Thin Loess and Till Plain
- 115 Central Mississippi Valley Wooded Slopes

N

EAST AND CENTRAL GENERAL FARMING AND FOREST REGION

- 116 (See M Above)
- 117 Boston Mountains
- 118 Arkansas Valley and Ridges
- 119 Ouachita Mountains
- 120 Kentucky and Indiana Sandstone and Shale Hills and Valleys
- 121 Kentucky Bluegrass
- 122 Highland Rim and Pennyroyal
- 123 Nashville Basin
- 124 Western Allegheny Plateau
- 125 Cumberland Plateau and Mountains
- 126 Central Allegheny Plateau
- 127 Eastern Allegheny Plateau and Mountains
- 128 Southern Appalachian Ridges and Valleys
- 129 Sand Mountain
- 130 Blue Ridge

O

MISSISSIPPI DELTA COTTON AND FEED GRAINS REGION

- 131 Southern Mississippi Valley Alluvium
- 132 Eastern Arkansas Prairies
- 134 (See P Below)

P

SOUTH ATLANTIC AND GULF SLOPE CASH CROP, FOREST, AND LIVESTOCK REGION

- 86 (See J Above)

R

NORTHEASTERN FORAGE AND FOREST REGION

- 139 Eastern Ohio Till Plain
- 140 Glaciated Allegheny Plateau and Catskill Mountains
- 141 Tughill Plateau
- 142 St. Lawrence-Champlain Plain
- 143 Northeastern Mountains
- 144 New England and Eastern New York Upland
- 145 Connecticut Valley
- 146 Aroostook Area

S

NORTHERN ATLANTIC SLOPE, TRUCK, FRUIT, AND POULTRY REGION

- 147 Northern Piedmont
- 148 Northern Piedmont
- 149 Northern Coastal Plain

T

ATLANTIC AND GULF COAST LOWLANDS, FOREST AND TRUCK CROP REGION

- 150 Gulf Coast Prairies
- 151 Gulf Coast Marsh
- 152 Gulf Coast Flatwoods
- 153 Atlantic Coast Flatwoods

U

FLORIDA SUBTROPICAL FRUIT, TRUCK CROP, AND RANGE REGION

- 154 South Central Florida Ridge
- 155 Southern Florida Flatwoods
- 156 Florida Everglades and Associated Areas

Compiled by Morris E. Austin
Information from SCS, State, and other Offices

Table 3.--Experimental agricultural watersheds, listed by State, locality, and location number, under study during 1976 and included in this publication

State	Locality	Assigned location number	Major land resource area ^{1/}	Watershed units	Events reported	Pages
Arizona.....	Tombstone	63	D-41	8	8	155-180
Florida.....	Vero Beach.....	08	U-155	3	0	24- 29
Georgia.....	Tifton.....	74	P-133	8	8	291-324
	Watkinsville.....	10	P-136	1	1	30- 33
Idaho.....	Reynolds.....	68	D-23, D-25	7	8	184-212
Illinois.....	Monticello.....	61	M-108	2	2	149-154
Iowa.....	Treynor.....	71	M-107	4	0	283-290
Missouri.....	McCredie.....	25	M-113	1	0	37- 38
New Mexico.....	Santa Rosa.....	64	G-70	1	1	181-183
Ohio.....	Coshocton.....	26	N-124	13	13	39- 77
Oklahoma.....	Chickasha.....	69	H-78, H-80, J-84	24	18	213-282
	Stillwater.....	37	H-80	2	2	78- 83
Pennsylvania...	Klingerstown.....	16	S-147	1	1	34- 36
Texas.....	Riesel (Waco).....	42	J-86	18	18	84-148

^{1/} See location map (p. 20) and legend (p. 21).

Table 4.--Watersheds, listed by State and locality, for which data were previously included but are not in this publication^{1/}

State	Locality	Major land resource area ^{2/}	Discontinued watershed units ^{3/}		
			Number	Record period (19--)	Assigned location and watershed number
Idaho.....	Reynolds.....	D-23, D-25	1	67-77	68012
Texas.....	Riesel (Waco)..	J-86	4	37-75	42007
				39-75	42015
				38-75	42023
				69-75	42038

^{1/} For discontinued watershed studies prior to 1976, see tables in previous publications.

^{2/} See location map (p. 20) and legend (p. 21).

^{3/} Data not available for this publication; may be included in future references.

**WATERSHED DATA BY LOCATION NUMBER
AND
DECIMAL PAGING**

[8.002-1 TO 74.009-3, A TOTAL OF 301 DATA SHEETS]

For location by States and Land Resource Areas
and Regions, see U.S. Index Map, page 18.

VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-2

LOCATION: Okeechobee County, Florida. Runoff gaging site is about 3 mi. N. of City of Okeechobee on Cemetery Road. Taylor Creek empties into Lake Okeechobee. Lat. 27 deg. 17 min. 03 sec. N.; Long. 80 deg. 49 min. 21 sec. W.

AREA: 66880.00 acres 104.50 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						VERO BEACH, FLORIDA (TAYLOR CREEK)						WATERSHED W-2	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976 P	0.34	1.23	0.88	2.52	12.46	5.73	5.45	6.92	5.79	0.80	1.92	2.34	46.38
Q	0.027	0.040	0.019	0.036	1.727	2.919	1.175	2.464	1.329	0.236	0.070	0.090	10.132
STA AV P	1.76	2.29	3.00	1.88	4.86	8.48	6.64	6.79	5.92	3.90	1.34	1.52	48.37
Q	0.438	0.403	0.909	0.180	0.385	2.016	2.147	2.119	2.434	1.817	1.685	0.190	14.723

NOTES: Watershed conditions: 1976: Range & forest, 39%; improved pasture, 47%; cropland, 4%; miscellaneous, 10%. For revised map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1971, USDA Misc. Pnb. 1383, p. 08.002-3. Precipitation and runoff records began July 1955. Precipitation Thiessen weighted using 7 gages for record period 1967-76. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okeechobee Hurricane Gate 6, Florida (gage discontinued Nov. 1971, afterwards use Okeechobee 9 SW).

1976 DAILY AIR TEMPERATURE (degrees F)												VERO BEACH, FLORIDA (TAYLOR CREEK)								WATERSHED W-2				
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	70	38	76	46	84	60	84	45	84	52	86	64	88	70	88	70	88	71	85	67	78	54	66	50
2	78	42	64	30	84	56	82	42	78	65	88	68	88	69	90	69	89	69	85	65	78	56	65	48
3	76	46	74	32	84	57	84	43	80	56	86	68	89	68	88	70	50	68	85	60	70	54	72	49
4	72	47	78	40	82	58	82	49	85	54	86	66	90	70	88	69	68	68	84	56	76	52	74	51
5	70	47	82	54	84	58	85	56	84	55	84	66	90	71	89	72	88	67	88	63	72	40	74	59
6	76	50	82	57	86	61	78	60	88	60	84	68	89	70	90	71	89	68	88	68	72	46	78	62
7	79	54	74	36	82	64	80	64	88	64	84	68	88	70	88	70	90	69	89	69	72	47	78	55
8	74	32	64	36	84	66	80	58	89	64	86	68	86	68	90	71	90	70	89	71	66	42	66	40
9	56	34	66	37	86	63	78	48	90	64	84	66	86	68	88	70	92	71	82	65	72	44	70	43
10	70	38	74	38	82	49	76	46	88	65	86	69	88	69	92	69	90	70	73	66	76	48	76	63
11	74	46	76	40	78	49	78	48	86	64	82	66	87	68	90	71	68	67	74	62	76	58	78	62
12	78	49	82	44	82	53	80	54	88	64	86	68	89	71	88	72	86	68	82	58	74	62	82	63
13	60	54	82	46	86	55	80	55	84	66	85	67	90	72	89	68	88	70	82	58	76	58	80	63
14	82	55	82	48	88	60	79	49	86	68	86	69	89	72	90	69	88	67	83	59	82	62	78	60
15	78	54	80	48	86	63	78	48	84	68	84	69	91	71	88	70	86	66	86	62	84	63	78	54
16	75	46	82	48	86	52	80	52	84	65	84	68	90	70	88	68	86	67	84	63	82	62	78	42
17	62	26	83	49	72	40	80	50	82	66	86	69	90	69	85	70	90	69	84	67	84	66	76	39
18	56	30	85	54	74	44	82	53	86	62	88	70	91	70	85	69	88	66	82	68	78	54	72	42
19	64	40	80	52	78	48	82	56	84	62	86	69	90	69	82	68	86	66	84	68	78	55	78	47
20	74	46	82	52	84	51	84	56	80	66	86	68	90	68	88	71	88	68	86	58	82	64	76	54
21	73	38	82	54	86	55	86	58	82	68	88	72	90	70	88	70	88	69	72	47	72	46	56	36
22	66	29	85	44	88	56	88	58	84	69	84	68	91	69	88	72	84	69	76	48	54	36	68	40
23	70	30	70	46	72	54	89	59	82	68	78	68	92	68	90	72	86	69	78	56	68	40	60	47
24	66	40	68	54	76	52	90	63	64	66	84	68	90	70	90	71	88	68	82	58	70	40	66	42
25	80	49	70	57	78	50	88	62	82	65	86	67	92	71	88	70	86	67	84	59	74	44	74	44
26	84	61	72	60	76	52	68	60	84	64	88	69	90	68	88	72	88	68	62	52	82	62	64	36
27	80	49	78	56	78	54	89	60	88	69	86	68	91	71	88	70	90	69	78	53	84	67	64	38
28	65	34	76	58	84	58	88	61	84	66	88	67	92	69	89	69	89	67	74	54	86	66	68	40
29	64	34	82	58	86	56	89	60	86	66	88	68	90	68	88	68	88	68	78	54	84	52	68	38
30	68	35			85	54	89	60	86	62	88	69	92	68	99	69	86	69	82	54	52	44	72	44
31	70	37			86	55			87	62			90	70	88	68			84	57			78	48
AV.	72	42	77	47	82	55	83	54	85	64	86	68	90	70	88	70	88	68	82	60	75	53	72	48
MEAN	57.1		62.2		68.6		68.9		74.3		76.8		79.6		79.2		78.2		71.2		64.2		60.2	
STA AV	72	51	74	50	78	55	83	61	88	66	89	71	92	74	92	74	91	73	87	66	79	56	74	52

NOTES: Temperature data from R-3, readings taken daily. STA AV values are based on record period July 1, 1956-1976.

Cooperative Research Project of USDA, U.S. Geological Survey, University of Florida, IFAS Experiment Station, and South Florida Water Management District

1976 DAILY PRECIPITATION (inches)													VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED #2			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.0	0.20E	0.02E	0.64	0.13E	0.06E	0.21E	0.10E	0.0	0.0	0.07				
2	0.0	0.0	0.12E	0.0 E	0.06	0.0	0.10E	0.11E	0.0 E	0.0	0.24	0.04				
3	0.0	0.0	0.0	0.0 E	0.0	0.32E	0.06E	1.43E	0.06E	0.0	1.37	0.0				
4	0.0	0.0	0.0	0.0 E	0.0	0.47E	0.0 E	0.03E	0.93E	0.12	0.0	0.0				
5	0.0	0.0	0.02E	0.0 E	0.0	0.64E	0.0 E	0.0 E	0.31E	0.08	0.0	0.04				
6	0.0	0.0	0.02E	0.67E	0.10	0.60E	0.13E	0.13E	0.05E	0.0	0.0	0.95				
7	0.01	0.0	0.09E	0.74E	0.04	0.02E	0.16E	0.0 E	0.0 E	0.06	0.0	0.08				
8	0.07	0.0	0.0 E	1.05E	0.24	0.12E	1.21E	0.0 E	0.0 E	0.08	0.0	0.04				
9	0.0	0.0	0.0 E	0.02E	0.27	1.11E	0.23E	0.41E	0.0 E	0.05	0.0	0.0				
10	0.0	0.0	0.15E	0.01E	0.22	0.22E	0.03E	0.43E	0.09E	0.0	0.0	0.0				
11	0.0	0.0	0.01E	0.0 E	0.65E	0.03E	0.26E	0.0 E	0.36E	0.01	0.0	0.21				
12	0.0	0.0	0.0 E	0.0 E	0.06E	0.0 E	0.08E	0.10E	0.06E	0.0	0.0	0.05				
13	0.0	0.0	0.0 E	0.0 E	0.07E	0.0 E	0.0 E	1.01E	0.48E	0.0	0.0	0.0				
14	0.03	0.0	0.0 E	0.0	0.0 E	0.0 E	0.0 E	0.70E	0.11E	0.0	0.0	0.0				
15	0.0	0.0	0.0 E	0.0	2.21E	0.19E	0.0 E	0.03E	0.0 E	0.0	0.0	0.04				
16	0.0	0.0	0.0 E	0.0	0.51E	0.14E	1.12E	0.73E	0.0 E	0.27	0.0	0.01				
17	0.0	0.0	0.0	0.0	0.49E	0.0 E	0.27E	0.21E	0.02E	0.09	0.0	0.0				
18	0.0	0.0	0.0	0.0	0.0 E	0.0 E	0.0 E	0.07E	0.04E	0.0	0.0	0.0				
19	0.0	0.0	0.0	0.0	0.0 E	0.14E	0.0 E	0.49E	0.0 E	0.0	0.0	0.0				
20	0.0	0.0	0.0	0.0	0.0 E	0.01E	0.0 E	0.03E	0.0 E	0.0	0.0	0.0				
21	0.0	0.0	0.0	0.0	0.10E	0.0 E	0.83	0.20E	1.83E	0.0	0.0	0.0				
22	0.0	0.0	0.23E	0.0	1.97E	0.91E	0.01	0.0 E	0.24E	0.0	0.0	0.0 E				
23	0.0	0.0	0.04E	0.0	0.97E	0.21E	0.63	0.01E	0.0 E	0.0	0.0	0.09E				
24	0.0	0.18	0.0 E	0.01	0.0 E	0.26E	0.05	0.42E	0.06	0.0	0.0	0.03E				
25	0.0	0.14	0.0 E	0.0	0.49E	0.01E	0.04	0.11	0.0	0.02	0.0	0.0 E				
26	0.0	0.31	0.0 E	0.0	0.0 E	0.02E	0.0	0.0	0.0	0.0	0.0	0.56E				
27	0.23	0.06E	0.0 E	0.0	0.0 E	0.0 E	0.01	0.0	0.0	0.0	0.0	0.0 E				
28	0.0	0.13E	0.0 E	0.0	0.20E	0.0 E	0.0	0.01	0.02	0.02	0.0	0.0 E				
29	0.0	0.41E	0.0 E	0.0	0.83E	0.01E	0.04	0.0	0.55	0.0	0.0	0.01E				
30	0.0	0.0	0.0 E	0.0	1.40E	0.17E	0.0	0.0	0.48	0.0	0.31	0.0 E				
31	0.0	0.0	0.0 E	0.0	0.94E	0.13E	0.05E	0.0	0.0	0.0	0.07E	0.0				
TOTAL	0.34	1.23	0.88	2.52	12.46	5.73	5.45	6.92	5.79	0.80	1.92	2.34				
STA AV	1.76	2.29	3.00	1.88	4.86	8.48	6.64	6.79	5.92	3.90	1.34	1.52				

NOTES: Thiessen weighted rainfall, using 7 rain gages. STA AV values are based on record period July 1, 1955-1976.

1976 MEAN DAILY DISCHARGE (cfs)													VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED #2			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	20.0	0.0	0.0	12.0	1010.0	46.0	52.0	52.0	195.0	0.0	23.0				
2	10.0	0.0	0.0	14.0	0.0	857.0	78.0	34.0	62.0	128.0	13.0	0.0				
3	0.0	0.0	19.0	0.0	0.0	466.0	43.0	68.0	56.0	77.0	41.0	0.0				
4	0.0	0.0	0.0	0.0	16.0	271.0	30.0	244.0	145.0	33.0	27.0	0.0				
5	0.0	0.0	0.0	0.0	0.0	393.0	37.0	185.0	414.0	45.0	15.0	21.0				
6	0.0	23.0	0.0	0.0	0.0	549.0	48.0	123.0	297.0	47.0	0.0	0.0				
7	0.0	0.0	0.0	0.0	0.0	500.0	57.0	100.0	169.0	14.0	13.0	0.0				
8	20.0	0.0	21.0	26.0	0.0	238.0	135.0	65.0	96.0	0.0	0.0	18.0				
9	0.0	0.0	0.0	14.0	6.1	152.0	136.0	65.0	80.0	19.0	0.0	0.0				
10	0.0	0.0	0.0	21.0	11.0	720.0	76.0	120.0	52.0	0.0	12.0	4.9				
11	0.0	0.0	0.0	0.0	44.0	662.0	71.0	128.0	63.0	13.0	0.0	6.4				
12	0.0	0.0	0.0	10.0	58.0	490.0	85.0	102.0	69.0	5.8	0.0	18.0				
13	0.0	0.0	0.0	0.0	11.0	264.0	159.0	157.0	77.0	14.0	16.0	0.0				
14	25.0	0.0	0.0	0.0	24.0	151.0	77.0	622.0	118.0	0.0	0.0	23.0				
15	0.0	21.0	0.0	0.0	37.0	81.0	53.0	730.0	113.0	0.0	0.0	0.0				
16	0.0	7.6	0.0	0.0	193.0	90.0	31.0	505.0	65.0	20.0	13.0	18.0				
17	0.0	0.0	6.8	0.0	219.0	85.0	219.0	607.0	50.0	0.0	0.0	0.0				
18	0.0	0.0	6.8	0.0	158.0	53.0	307.0	485.0	56.0	15.0	0.0	15.0				
19	0.0	0.0	0.0	0.0	60.0	45.0	220.0	408.0	34.0	0.0	12.0	0.0				
20	0.0	0.0	0.0	15.0	19.0	61.0	140.0	374.0	51.0	12.0	0.0	13.0				
21	20.0	0.0	0.0	0.0	28.0	52.0	104.0	271.0	82.0	0.0	0.0	0.0				
22	0.0	0.0	0.0	0.0	32.0	45.0	141.0	280.0	457.0	0.0	0.0	0.0				
23	0.0	0.0	0.0	0.0	477.0	207.0	145.0	159.0	357.0	0.0	17.0	18.0				
24	0.0	0.0	0.0	0.0	824.0	219.0	268.0	145.0	174.0	13.0	0.0	0.0				
25	0.0	11.0	0.0	0.0	691.0	218.0	192.0	251.0	145.0	0.0	0.0	0.0				
26	0.0	0.0	0.0	0.0	485.0	85.0	126.0	289.0	95.0	0.0	0.0	20.0				
27	0.0	0.0	0.0	0.0	385.0	71.0	73.0	148.0	39.0	0.0	14.0	19.0				
28	0.0	0.0	0.0	0.0	211.0	70.0	70.0	73.0	66.0	12.0	0.0	0.0				
29	0.0	29.0	0.0	0.0	94.0	52.0	69.0	57.0	66.0	0.0	0.0	23.0				
30	0.0	0.0	0.0	0.0	282.0	46.0	55.0	40.0	133.0	0.0	0.0	0.0				
31	0.0	0.0	0.0	0.0	477.0	51.0	36.0	0.0	0.0	0.0	0.0	19.0				
MEAN	2.42	3.85	1.73	3.33	156.58	273.43	106.52	223.32	124.43	21.38	6.57	8.20				
INCHES	0.027	0.340	0.019	0.036	1.727	2.919	1.175	2.464	1.329	0.236	0.070	0.090				
STA AV	0.438	0.403	0.909	0.180	0.385	2.016	2.147	2.119	2.434	1.817	1.695	0.190				

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by .00035589. Discharge is combined flow from Williamson ditch and S-1 structure. Runoff data furnished by the U.S. Geological Survey. Discharge measurements generally made once a week.

VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-3

LOCATION: Okeechobee County, Florida. Runoff gaging site is approximately 11 mi. (airline) N-NW of City of Okeechobee on State Road #68. Northern reach of Taylor Creek Watershed. Lat. 27 deg. 23 min. 24 sec. N.; Long. 80 deg. 53 min. 42 sec. W.

AREA: 12224.00 acres 19.10 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-3							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.10	0.61	1.33	2.01	12.81	5.01	5.85	7.57	4.78	0.41	1.98	2.50	44.96
	Q	0.032	0.012	0.016	0.014	0.153	1.379	0.463	3.016	0.245	0.243	0.054	0.121	5.748
STA AV	P	1.68	2.24	3.00	2.15	4.73	7.83	6.90	6.83	5.61	3.84	1.25	1.49	47.55
	Q	0.395	0.300	0.868	0.160	0.236	1.472	2.088	2.200	2.378	1.669	1.000	0.145	12.911

NOTES: Watershed conditions: 1976: Improved pasture, 59%; range & forest, 30%; cropland, 1%; miscellaneous, 10%. For revised map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1971, USDA Misc. Pnb. 1383, p. 08.002-3. Precipitation and runoff records began July 1955. Precipitation Thiessen weighted using 2 gages through Dec. 31, 1966; 3 gages for record period 1967-76. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okeechobee Hurricane Gate 6, Florida (gage discontinued Nov. 1971, afterwards use Okeechobee 9 SW).

1976	DAILY PRECIPITATION (inches)					VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-3							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.18	0.0	0.23	0.01E	0.15E	0.77	0.05	0.0	0.0	0.10	
2	0.0	0.0	0.38	0.0	0.05	0.0	0.10E	0.0	0.0	0.0	0.20	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.11E	0.06E	1.27E	0.19	0.0	1.19	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.30E	0.0 E	0.01E	0.20	0.0	0.0	0.0	
5	0.0	0.0	0.08	0.0	0.0	0.08E	0.0 E	0.0	0.26	0.01	0.0	0.09	
6	0.0	0.0	0.09	0.93	0.22	0.75E	0.0 E	0.04	0.12	0.0	0.0	1.01	
7	0.04	0.0	0.15	0.59	0.0	0.0 E	0.38E	0.0	0.0	0.01	0.0	0.0	
8	0.0	0.0	0.0	0.49	0.47	0.05E	1.00	0.0	0.0	0.20	0.0	0.09	
9	0.0	0.0	0.0	0.0	0.10	1.68E	0.27	0.33	0.0	0.09	0.0	0.0	
10	0.0	0.0	0.28	0.0	0.0	0.10E	0.0	1.10	0.01	0.0	0.0	0.0	
11	0.0	0.0	0.04	0.0	0.84	0.01E	0.44	0.0	0.06	0.04	0.0	0.06	
12	0.0	0.0	0.0	0.0	0.16	0.0 E	0.04	0.38	0.05	0.0	0.0	0.09	
13	0.0	0.0	0.0	0.0	0.12	0.0 E	0.0	0.42	0.47	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0 E	0.0	1.64	0.05	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	2.52	0.07E	0.0	0.04	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.30	0.09E	1.24	0.07	0.0	0.01	0.0	0.01	
17	0.0	0.0	0.0	0.0	0.56	0.0 E	0.11	0.37	0.09	0.01	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0 E	0.0	0.23	0.16	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0 E	0.25E	0.0	0.59	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0 E	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.18E	0.0 E	0.98	0.10	1.11	0.0	0.0	0.0	
22	0.0	0.0	0.13	0.0	2.73E	0.89E	0.0	0.0	0.24	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.28E	0.11E	0.74	0.0	0.0	0.0	0.0	0.09	
24	0.0	0.11	0.0	0.0	0.0 E	0.14E	0.02	0.06	0.08	0.0	0.0	0.10	
25	0.0	0.14	0.0	0.0	0.35E	0.04E	0.16	0.15	0.0	0.04	0.0	0.0	
26	0.0	0.12	0.0	0.0	0.0 E	0.0 E	0.0	0.0	0.0	0.0	0.0	0.68	
27	0.06	0.06	0.0	0.0	0.0 E	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.05	0.0	0.0	0.49E	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.13	0.0	0.0	0.77E	0.04E	0.16	0.0	0.74	0.0	0.0	0.04	
30	0.0	0.0	0.0	0.0	1.59E	0.29E	0.0	0.0	0.90	0.0	0.59	0.0	
31	0.0	0.0	0.0	0.0	0.85E	0.0	0.0	0.0	0.0	0.0	0.0	0.14	
TOTAL	0.10	0.61	1.33	2.01	12.81	5.01	5.85	7.57	4.78	0.41	1.98	2.50	
STA AV	1.68	2.24	3.00	2.15	4.73	7.83	6.90	6.83	5.61	3.84	1.25	1.49	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-2, p. 08.002-1. Thiessen weighted average of 3 rain gages. STA AV values are based on record period July 1, 1955-1976.

1976 MEAN DAILY DISCHARGE (cfs) VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.00	0.20	0.40	0.10	0.0	57.00	0.70	4.00	6.70	13.00	0.50	1.60
2	1.30	0.20	0.40	0.10	0.0	37.00	0.70	7.00	5.40	18.00	0.50	1.80
3	1.00	0.20	0.40	0.10	0.0	24.00	0.90	4.30	4.30	14.00	2.40	1.60
4	0.90	0.20	0.30	0.10	0.0	24.00	0.80	5.40	3.40	11.00	2.60	1.40
5	0.90	0.20	0.30	0.10	0.0	30.00	0.70	11.00	2.60	8.80	1.60	1.00
6	1.00	0.20	0.30	0.20	0.0	36.00	0.50	12.00	2.10	7.20	1.20	1.40
7	1.30	0.20	0.40	0.20	0.0	16.00	0.40	12.00	1.80	5.90	1.00	3.20
8	1.00	0.20	0.70	0.30	0.0	11.30	3.20	11.00	7.50	4.60	0.90	2.80
9	1.00	0.20	0.50	1.40	0.0	25.00	15.00	9.70	7.00	4.60	0.60	2.80
10	1.00	0.20	0.30	1.80	0.0	153.00	8.50	12.00	5.40	4.30	0.80	2.40
11	0.90	0.20	0.30	0.70	0.0	110.00	5.40	24.00	4.30	3.80	0.70	2.40
12	0.70	0.20	0.30	0.40	0.10	60.00	9.30	19.00	3.60	3.50	0.70	2.20
13	0.40	0.20	0.20	0.30	0.10	36.00	5.60	26.00	3.40	3.00	0.70	2.40
14	0.30	0.20	0.20	0.20	0.10	21.00	3.60	63.00	4.10	2.80	0.80	2.60
15	0.30	0.20	0.20	0.20	0.30	14.00	2.00	252.00	4.60	2.40	0.70	2.60
16	0.30	0.20	0.20	0.10	0.60	11.00	1.20	130.00	4.10	2.20	0.70	2.40
17	0.30	0.20	0.20	0.10	1.00	8.30	5.10	95.00	3.40	2.00	0.80	2.20
18	0.20	0.20	0.20	0.10	1.40	3.90	9.70	180.00	2.80	2.00	0.60	2.00
19	0.20	0.20	0.20	0.10	0.70	4.30	9.70	162.00	2.80	1.80	0.90	1.60
20	0.20	0.20	0.20	0.10	0.50	3.20	12.00	104.00	2.20	1.60	0.90	1.40
21	0.20	0.20	0.20	0.10	0.50	1.30	25.00	126.00	2.00	1.40	0.90	1.40
22	0.30	0.20	0.20	0.10	0.80	1.60	33.00	76.00	4.30	1.00	0.60	1.60
23	0.30	0.20	0.20	0.10	7.20	3.00	21.00	54.00	7.00	0.80	0.60	1.80
24	0.30	0.20	0.20	0.10	8.20	4.80	22.00	39.00	6.20	0.80	0.70	2.20
25	0.20	0.20	0.20	0.0	4.60	4.60	12.00	26.00	5.40	3.70	0.70	2.20
26	0.30	0.30	0.20	0.0	3.60	3.40	8.10	22.00	5.10	0.70	0.70	2.50
27	0.30	0.30	0.20	0.0	2.60	2.20	6.20	17.00	4.10	0.60	0.70	2.20
28	0.30	0.30	0.20	0.0	1.60	1.60	4.70	14.00	3.20	0.60	0.70	1.80
29	0.30	0.30	0.20	0.0	2.40	0.70	3.80	12.00	2.60	0.60	0.70	1.60
30	0.20	0.30	0.20	0.0	9.20	0.60	3.30	9.70	4.60	0.60	0.80	1.40
31	0.20	0.30	0.10	0.0	33.00	0.60	5.60	8.10	0.60	0.60	0.60	1.40
MEAN	0.532	0.214	0.268	0.237	2.532	23.613	7.666	49.974	4.187	4.032	0.917	2.003
INCHES	0.032	0.012	0.016	0.014	0.153	1.379	0.463	3.016	0.245	0.243	0.054	0.121
STA AV	0.395	0.300	0.668	0.160	0.236	1.472	2.086	2.200	2.378	1.669	1.000	0.145

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by .00194712. Runoff data furnished by U.S. Geological Survey.

VERO BEACH, FLORIDA (WILLIAMSON DITCH) WATERSHED W-5

LOCATION: Okeechobee County, Florida; 125 feet upstream from control structure 7, 450 feet upstream from confluence with Taylor Creek, 3.6 miles north of town of Okeechobee, Florida. Lat. 27 deg. 16 min. 40 sec. N.; Long. 80 deg. 53 min. 44 sec. W.

AREA: 29992.00 acres 37.86 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							VERO BEACH, FLORIDA (WILLIAMSON DITCH)					WATERSHED W-5		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.59	1.32	0.51	2.86	13.81	7.28	5.32	7.41	5.74	3.69	2.06	2.03	49.94
	Q	0.063	0.357	0.355	0.064	2.922	4.156	1.635	2.417	1.259	0.332	0.162	0.154	13.294
STA AV	P	1.73	2.15	2.60	1.13	5.42	9.94	7.39	7.27	5.24	4.31	1.34	1.34	49.50
	Q	0.473	0.304	0.714	0.158	0.485	2.390	2.728	2.305	1.605	1.612	0.468	0.262	13.734

NOTES: Watershed Conditions: 1976: Vegetative cover: Improved pasture - 60%; unimproved pasture and range with little timber - 15%; woodland - 10%; citrus - 5%; marsh-swamp - 5%; urban, roads, etc. - 5%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1971, USDA Misc. Pub. 1383, p. 08.002-3. Precipitation and runoff records began April 1964, part-year records not included in STA AV. Precipitation Thiessen weighted using 3 gages. Station averages computed from 2 Thiessen weighted gages for record period 1964-1975 and 3 Thiessen weighted gages for 1976. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okeechobee Hurricane Gate 6, Florida (gage discontinued 1971, afterwards use Okeechobee 9 SW). Watershed area was changed effective Jan. 1975 to reflect physical alterations to the drainage area.

1976	DAILY PRECIPITATION (inches)					VERO BEACH, FLORIDA (WILLIAMSON DITCH)					WATERSHED W-5		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.20E	0.07E	1.41	0.22	0.0 T	0.0	0.0 E	0.0	0.0	0.0 T	
2	0.0	0.0	0.03E	0.0 E	0.10	0.0	0.03	0.23	0.0 E	0.0	0.30	0.10	
3	0.0	0.0	0.0	0.0 E	0.0	0.53	0.09	2.12E	0.0 E	0.0	1.49	0.0	
4	0.0	0.0	0.0	0.0 E	0.0	0.57	0.0	0.0 E	0.54E	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0 E	0.0	1.30	0.0	0.0 E	0.17E	0.0	0.0	0.0 T	
6	0.0	0.0	0.0	0.48E	0.10	0.57	3.27	0.07E	0.0 E	0.0	0.0	0.69	
7	0.0	0.0	0.03	0.79E	0.10	0.03	0.04E	0.0 E	0.0 E	0.0	0.0	0.10	
8	0.16	0.0	0.0	1.54E	0.03	0.14	1.72E	0.0 E	0.0 E	0.0	0.0	0.0 T	
9	0.0	0.0	0.0	0.0 E	0.43	1.39	0.11E	0.61E	0.0 E	0.07	0.0	0.0	
10	0.0	0.0	0.01	0.0 E	0.66	0.46	0.06E	0.07E	0.06E	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0 E	0.48	0.07	0.13E	0.0 E	0.50E	0.0	0.0	0.39	
12	0.0	0.0	0.0	0.0 E	0.07	0.0	0.12E	0.0 E	0.0 E	0.0	0.0	0.07	
13	0.0	0.0	0.0	0.0 E	0.03	0.0	0.0 E	1.08E	0.44E	0.0	0.0	0.0	
14	0.03	0.0	0.0	0.0	0.0	0.0	0.0 E	0.20E	0.10E	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	2.16	0.30	0.0 E	0.07E	0.0 E	0.0	0.0	0.13	
16	0.0	0.0	0.0	0.0	0.69	0.13	1.34E	1.25E	0.0 E	0.52	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.20	0.0	0.41E	0.06E	0.0 E	0.07	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.0 E	0.0 E	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.04	0.0 E	0.60E	0.0 E	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.03E	0.0 E	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.03	0.0	0.23	0.25E	2.26E	0.0	0.0	0.0	
22	0.0	0.0	0.23E	0.0	1.73	0.97	0.0 T	0.0 E	0.20E	0.0	0.0	0.0 E	
23	0.0	0.0	0.01E	0.0	2.14	0.26	0.38	0.0 E	0.0 E	0.0	0.0	0.13E	
24	0.0	0.30	0.0 E	0.0	0.0	0.23	0.93	0.61E	0.0	0.0	0.0	0.10E	
25	0.0	0.17	0.0 E	0.0	0.69	0.0	0.0	0.07	0.0	0.0	0.0	0.0 E	
26	0.0	0.39	0.0 E	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.35E	
27	0.40	0.13E	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	
28	0.0	0.16E	0.0 E	0.0	0.03	0.0	0.0	0.0	0.03	0.03	0.0	0.0 E	
29	0.0	0.47E	0.0 E	0.0	1.10	0.0	0.0	0.0	0.88	0.0	0.0	0.0 E	
30	0.0	0.0	0.0 E	0.0	0.86	0.04	0.0	0.0	0.46	0.0	0.27	0.0 E	
31	0.0	0.0	0.0 E	0.0	0.77	0.0	0.36	0.09E	0.0	0.0	0.0	0.0 E	
TOTAL	0.59	1.62	0.51	2.88	13.81	7.28	5.32	7.41	5.74	0.69	2.06	2.03	
STA AV	1.73	2.19	2.60	1.13	5.42	9.94	7.39	7.27	5.24	4.31	1.34	1.34	

NOTES: For daily air temperatures in the vicinity, see p. 08.002-1. Precipitation values are Thiessen weighted averages of three gages. STA AV values are based on 12 yr (1965-1976) record period.

1976 MEAN DAILY DISCHARGE (cfs) VERO BEACH, FLORIDA (WILLIAMSON DITCH) WATERSHED W-5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	4.20	1.40	3.90	0.90	4.30	363.00	11.00	4.60	13.00	77.09	2.70	3.60
2	3.90	1.60	3.30	0.90	11.00	217.00	7.70	3.90	9.10	56.00	2.40	3.30
3	3.90	1.60	2.70	1.20	5.70	114.00	7.30	19.00	6.50	33.00	19.00	3.00
4	3.90	1.60	3.00	1.40	3.90	117.00	6.90	102.00	19.00	18.00	18.00	2.40
5	3.30	2.40	2.40	1.40	2.10	195.00	6.10	68.00	98.00	11.00	9.60	2.40
6	3.00	3.00	2.10	1.80	1.60	243.00	5.40	36.00	72.00	9.10	6.50	3.90
7	2.70	2.40	2.10	2.70	1.40	195.00	5.70	23.00	40.00	6.50	6.50	5.70
8	2.70	1.60	2.10	7.60	1.40	90.00	41.00	13.00	23.00	3.90	5.70	4.60
9	2.70	1.60	1.80	2.30	1.60	88.00	186.00	12.00	13.00	2.70	4.60	3.60
10	2.40	1.20	1.60	6.50	14.00	363.00	110.00	34.00	9.10	3.30	3.90	3.00
11	2.40	1.20	1.60	5.70	37.00	348.00	62.00	26.00	7.30	3.30	3.90	3.30
12	2.40	0.90	1.40	3.60	24.00	233.00	65.00	14.00	9.60	3.60	3.60	5.40
13	2.40	0.70	1.40	2.40	30.00	105.00	43.00	51.00	12.00	3.30	3.60	5.70
14	2.40	0.70	1.20	1.60	35.00	61.00	25.00	238.00	20.00	3.00	3.30	5.00
15	2.40	0.80	1.20	1.60	39.00	44.00	14.00	207.00	20.00	3.00	3.00	4.60
16	2.40	0.90	1.40	1.40	120.00	56.00	16.00	121.00	12.00	3.60	3.00	8.60
17	2.40	1.40	1.40	1.20	141.00	54.00	70.00	256.00	9.10	7.70	3.00	8.60
18	2.10	1.60	1.40	0.70	100.00	40.00	220.00	126.00	6.90	6.50	3.00	6.50
19	1.60	1.80	1.40	1.20	70.00	31.00	152.00	107.00	5.40	5.00	3.00	5.40
20	1.60	2.10	1.20	1.20	34.00	37.60	80.00	83.00	4.60	4.20	3.00	4.60
21	1.60	2.10	0.90	1.20	14.00	29.00	48.00	65.00	5.70	3.60	3.30	3.90
22	1.60	1.80	0.90	1.20	12.00	31.00	37.00	65.00	227.00	3.00	3.30	3.30
23	1.40	1.60	1.20	0.90	198.00	155.00	25.00	47.00	172.00	2.40	3.00	3.00
24	1.20	1.40	0.80	0.40	348.00	166.00	54.00	40.00	91.00	2.10	2.70	3.30
25	1.20	2.10	0.70	0.30	264.00	98.00	51.00	134.00	58.00	2.10	2.70	3.60
26	1.20	2.70	0.80	0.50	247.00	73.00	34.00	103.00	34.00	2.10	3.00	3.90
27	1.40	3.00	0.70	1.20	164.00	48.00	23.00	59.00	22.00	2.40	3.60	4.60
28	2.70	2.40	1.20	1.20	92.00	32.00	13.00	32.00	14.00	2.70	3.30	5.00
29	2.40	2.70	0.90	1.20	64.00	23.00	8.60	20.00	16.00	3.30	3.60	4.60
30	1.80		0.70	1.20	206.00	16.00	6.50	12.00	61.00	3.00	3.30	3.90
31	1.60		0.70		291.00		5.40	10.00		2.70		3.30
MEAN	2.36	1.75	1.55	1.89	83.13	122.17	46.50	68.76	37.01	9.45	4.75	4.37
INCHES	0.083	0.057	0.055	0.064	2.922	4.156	1.635	2.417	1.259	0.332	0.162	0.154
STA AV	0.473	0.304	0.714	0.158	0.485	2.390	2.729	2.545	1.605	1.612	0.488	0.282

NOTES: To convert mean daily discharge in CFS to IN/DAY after 1975, multiply by 0.00113334. Runoff data furnished by U.S. Geological Survey. Records are good to fair. STA AV values are based on 12 yr (1965-1976) record period.

WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)

LOCATION: Oconee Co., Ga.; 7 mi. S.W. of Athens, near Watkinsville, Ga., Oconee River Basin. Lat. 33 deg. 53 min. 38 sec. N.; Long. 83 deg. 25 min. 30 sec. W.

AREA: 19.20 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1976	P	3.82	2.13	9.78	0.74	8.43	1.96	3.45	2.99	2.96	5.68	5.38	5.61	52.93															
	Q	0.209	0.003	2.379	0.0	0.199	0.0	0.040	0.002	0.005	0.022	0.162	0.222	3.294															
STA AV	P	4.80	4.63	6.18	4.23	4.23	3.77	4.93	3.91	3.25	2.92	3.62	4.73	51.21															
	Q	0.457	0.364	0.781	0.413	0.346	0.198	0.344	0.284	0.032	0.057	0.262	0.260	3.799															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1976		3-16	0.574	3-16	0.483	3-16	0.863	3-16	1.735	3-15	2.079	3-15	2.264	3-14	2.268	3-9	2.289												
MAXIMUMS FOR PERIOD OF RECORD																													
		4-25	2.710	6-26	1.840	6-26	2.540	6-26	3.480	6-26	3.740	6-26	3.780	11-26	5.680	11-22	6.640												
		1945		1963		1963		1963		1963		1963		1948		1948													

NOTES: Watershed conditions: 1976: Excellent coastal bermudagrass pasture. Fertilized and cut as follows: May 17 hay cut, applied 5000 lbs. N84W03, June 28 hay cut, July 7 applied 5000 lbs. N84W03, August 31 half cut, Sept. 2 remaining half cut, Nov. 19 rye planted. A total of 4,345 cow-days of grazing. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 10.1-8. Precipitation and runoff records began Sept. 1, 1939. For long-time precipitation records, see National Weather Service records at Athens, Ga. (1885-1939) and Southern Piedmont Conservation Research Center (1940-1976).

1976 DAILY AIR TEMPERATURE (degrees F)														WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)													
Day		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
		max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min														
1		61 36	51 37	75 47	63 39	76 60	84 62	84 65	94 68	84 54	75 54	60 34	48 20														
2		61 30	46 28	81 43	71 41	72 54	79 65	86 57	88 69	87 65	80 51	62 31	54 22														
3		53 37	57 28	81 51	79 39	73 51	82 60	87 60	80 67	72 67	80 54	66 30	53 26														
4		38 24	68 29	81 49	78 50	71 38	62 59	79 70	85 60	76 66	77 54	61 35	57 26														
5		39 18	70 36	80 59	67 45	76 38	73 58	72 64	88 57	87 66	75 54	51 28	58 28														
6		39 20	63 34	62 47	72 43	79 49	76 49	82 64	92 60	85 63	76 55	61 25	50 38														
7		38 31	47 28	67 39	77 43	80 64	80 52	82 63	87 68	78 66	77 68	67 33	50 41														
8		43 21	51 26	58 36	74 41	66 52	86 54	88 60	85 68	86 66	72 63	51 27	44 27														
9		37 14	60 32	58 44	66 40	74 46	87 59	90 64	88 67	86 66	63 47	62 23	49 21														
10		51 16	71 28	60 38	72 33	75 49	86 61	89 68	89 63	82 54	69 44	70 41	50 28														
11		49 23	66 42	70 37	78 39	78 59	89 60	92 66	89 65	80 45	68 42	71 41	52 46														
12		56 30	66 28	57 47	71 46	83 58	92 63	92 77	90 64	82 46	70 43	49 41	60 52														
13		62 30	72 42	68 44	75 40	84 54	91 66	91 70	90 66	78 49	77 42	50 31	56 39														
14		56 31	74 50	59 39	79 50	78 62	85 69	91 60	90 65	69 60	78 45	39 34	48 33														
15		52 23	66 44	54 47	82 50	80 63	85 63	94 65	91 68	72 60	78 40	46 37	52 38														
16		50 25	78 40	67 36	80 51	76 61	88 72	92 70	90 68	82 64	78 50	55 42	57 42														
17		32 21	75 57	53 31	80 46	79 63	86 71	88 67	83 67	82 54	64 52	51 42	63 36														
18		38 15	71 52	65 28	85 46	66 52	85 69	87 62	81 59	86 53	58 37	70 42	71 40														
19		41 12	68 42	70 40	88 50	73 39	84 71	86 64	80 61	86 57	56 36	66 50	69 34														
20		48 18	70 35	74 52	85 54	80 43	76 70	94 67	76 66	84 67	63 47	57 49	56 32														
21		52 28	73 41	68 47	82 60	83 50	82 64	91 64	82 65	80 58	60 40	58 35	35 20														
22		48 30	59 38	60 36	80 56	79 51	84 62	94 66	88 68	79 50	68 33	46 30	38 13														
23		63 28	57 34	66 33	87 48	73 63	86 65	93 69	91 71	80 47	70 38	50 25	43 25														
24		61 44	66 28	70 33	84 47	79 61	84 68	94 71	90 67	84 53	66 46	59 35	52 23														
25		66 50	68 30	67 55	76 60	76 61	88 66	96 70	86 67	82 56	64 56	65 34	43 21														
26		61 56	70 40	74 50	69 47	75 61	90 68	94 70	88 72	84 68	67 50	54 43	46 37														
27		58 31	74 39	73 54	73 38	73 62	88 69	92 70	86 70	85 70	54 40	62 50	57 34														
28		48 25	76 35	75 41	75 39	75 63	90 69	88 69	86 70	85 68	53 31	66 56	54 43														
29		54 33	75 40	74 54	65 43	74 59	92 67	90 71	90 70	82 69	61 28	56 23	45 30														
30		61 32		69 60	65 55	83 62	85 66	86 71	82 67	71 55	62 40	40 20	55 21														
31		63 27		68 46		86 61		90 70	81 60		59 41		55 24														
AV.		51 28	66 37	68 44	76 46	77 55	84 64	88 67	87 66	81 59	68 46	57 36	52 31														
MEAN		39.4	51.3	56.0	61.0	65.9	74.1	77.6	76.3	70.3	57.1	46.5	41.7														
STA AV		54 33	57 34	64 41	73 47	79 56	86 64	88 69	87 68	83 63	74 50	62 39	56 35														

NOTES: STA AV values are based on 8 yr (1969-76) record period.

1976 DAILY PRECIPITATION (inches) WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.62	0.0	0.0	0.18	0.37	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0
3	0.31	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.02	0.0	0.0	1.02	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0
6	0.0	0.01	0.0	0.0	0.0	0.0	1.17	1.53	0.0	0.0	0.0	1.76
7	0.58	0.0	0.0	0.0	0.04	0.0	0.0	0.06	0.13	1.05	0.0	0.14
8	0.0	0.0	0.25	0.0	0.44	0.0	0.0	0.0	0.0	2.60	0.0	0.0
9	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.14	0.0	0.0	0.04	0.14	0.0	0.0	0.0	0.0	0.0	0.06	0.20
12	0.0	0.0	1.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	1.13
13	0.19	0.0	0.54	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.99	0.0	0.0	0.0	1.22	0.0	0.95	0.17
15	0.0	0.0	2.02	0.0	2.63	0.0	0.0	0.42	0.0	0.0	2.12	0.55
16	0.0	0.0	2.37	0.0	0.0	0.0	0.04	0.29	0.0	0.0	0.0	0.05
17	0.06	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.32	0.0	0.0
18	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.45	0.0	0.0	0.0	0.34	0.0	0.0	0.25	0.49	0.07	0.62
21	0.0	0.82	0.40	0.0	0.0	0.06	0.03	0.11	0.10	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.06	0.0	0.05	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.06	0.21	0.27	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.29	0.0	0.44	0.0	0.99
26	1.28	0.0	0.0	0.0	0.0	0.10	0.0	0.04	0.0	0.0	0.53	0.0
27	1.26	0.0	0.15	0.0	1.02	0.0	0.37	0.07	0.0	0.0	0.16	0.0
28	0.0	0.0	0.0	0.0	2.03	0.0	0.0	0.10	0.0	0.0	1.22	0.0
29	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.08	1.26	0.0	0.13	0.0
30	0.0	0.0	0.90	0.47	0.0	0.28	0.0	0.0	0.0	0.55	0.0	0.0
31	0.0	0.0	1.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	3.82	2.13	9.78	0.74	8.43	1.96	3.45	2.99	2.96	5.68	5.38	5.61
STA AV	4.80	4.63	6.18	4.23	4.23	3.77	4.93	3.91	3.25	2.92	3.62	4.73

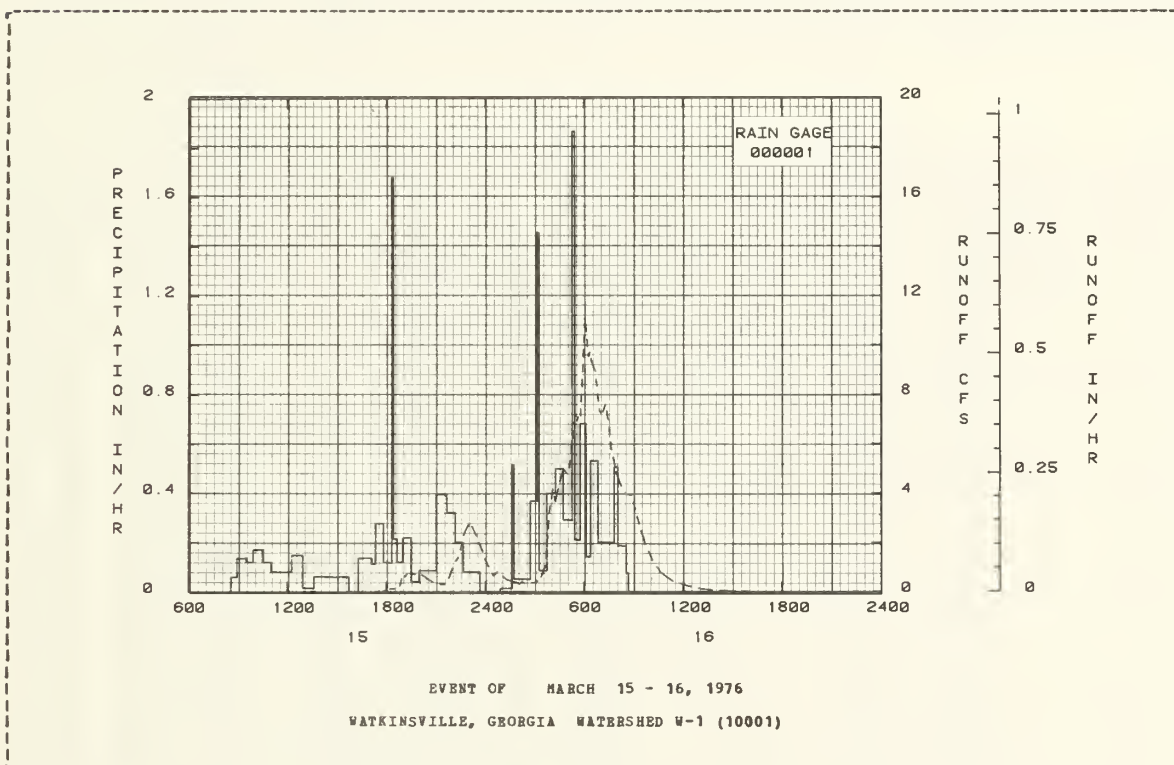
NOTES: Daily precipitation values from rain gage R1-W1. STA AV values are based on 37 yr (1940-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.002	0.0	0.0	0.0	0.133
7	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.006
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.019
13	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.248	0.0	0.019	0.0	0.0	0.0	0.0	0.0	0.124	0.009
16	0.0	0.0	1.581	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
21	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.011
26	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.161	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.027	0.0	0.0	0.0	0.0	0.0	0.006	0.0
29	0.0	0.0	0.0	0.0	0.114	0.0	0.0	0.0	0.004	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.072	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0054	0.0001	0.0619	0.0	0.0052	0.0	0.0010	0.0	0.0001	0.0006	0.0044	0.0058
INCHES	0.209	0.003	2.379	0.0	0.199	0.0	0.040	0.002	0.005	0.022	0.162	0.222
STA AV	0.457	0.364	0.781	0.413	0.346	0.198	0.344	0.284	0.032	0.057	0.262	0.260

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.239669. STA AV values are based on 37 yr (1940-76) record period.

1976			WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)							
SELECTED RUNOFF EVENT										
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 15 - 16, 1976										
RG 000001			RG 000001							
3-15	0.0	0.001	3-15	835	0.0	0.0	3-15	1100	0.005	0.0
				855	0.0600	0.02		1109	0.012	0.0001
				930	0.1371	0.10		1135	0.010	0.0003
				955	0.1200	0.15		1300	0.010	0.0010
				1030	0.1714	0.25		1326	0.016	0.0013
WATERSHED CONDITIONS: Dormant Coastal Sermudagrass. Excellent cover.				1100	0.1200	0.31		1344	0.005	0.0015
				1215	0.0800	0.41		1414	0.0	0.0016
				1255	0.1500	0.51		1522	0.004	0.0017
				1337	0.0143	0.52		1618	0.004	0.0019
				1415	0.0632	0.56		1646	0.001	0.0019
				1544	0.0607	0.65		1712	0.011	0.0021
				1618	0.0	0.65		1736	0.036	0.0025
				1706	0.1375	0.76		1748	0.046	0.0030
				1722	0.1125	0.79		1758	0.061	0.0034
				1750	0.2786	0.92		1813	0.119	0.0046
				1821	0.1161	0.98		1833	0.140	0.0068
				1826	1.6800	1.12		1850	0.245	0.0096
				1840	0.2143	1.17		1857	0.544	0.0120
				1900	0.1200	1.21		1907	0.623	0.0170
				1930	0.2200	1.32		1915	0.727	0.0217
				2000	0.0400	1.34		1927	0.754	0.0293
				2102	0.0871	1.43		1945	0.700	0.0406
				2140	0.3947	1.68		2010	0.684	0.0555
				2210	0.3200	1.84		2049	0.379	0.0733
				2240	0.2000	1.94		2122	0.297	0.0829
			3-16	2340	0.0800	2.02		2132	0.337	0.0857
				55	0.0	2.02		2148	0.568	0.0919
				138	0.0140	2.03		2200	0.967	0.0998
				145	0.5143	2.09		2211	1.253	0.1103
				244	0.0508	2.14		2222	1.423	0.1230
				310	0.3692	2.30		2245	2.438	0.1612
				317	1.4571	2.47		2301	2.787	0.1972
				345	0.0857	2.51		2312	2.639	0.2229
				415	0.4000	2.71		2328	2.258	0.2566
				445	0.5000	2.96		2350	1.615	0.2933
				516	0.2903	3.11		2400	1.284	0.3058
				525	1.8667	3.39	3-16	30	0.648	0.3307
				545	0.2100	3.46		43	0.834	0.3390
				607	0.6818	3.71		117	0.492	0.3584
				624	0.1412	3.75		204	0.323	0.3749
				650	0.5308	3.98		212	0.404	0.3774
				750	0.2000	4.18		222	0.347	0.3807
				803	0.5077	4.29		256	0.366	0.3911
				832	0.1862	4.38		311	0.445	0.3963
				840	0.0750	4.39		324	0.601	0.4022
				900	0.0	4.39		339	1.069	0.4130
								346	1.980	0.4221
								355	3.203	0.4422
								406	4.172	0.4771
								416	3.650	0.5108
								426	4.184	0.5445
								442	4.870	0.6069
								450	4.928	0.6406
								457	4.794	0.6699
								507	5.044	0.7123
								528	7.184	0.8228
								534	6.945	0.8593
								539	7.112	0.8895
								547	7.118	0.9385
								604	11.122	1.0720
								616	9.531	1.1787
								622	9.731	1.2284
								627	9.310	1.2694
								641	8.989	1.3792
								656	7.321	1.4840
								702	7.244	1.5216
								709	7.309	1.5655
								717	7.596	1.6168
								728	6.956	1.6857
								740	5.734	1.7513

1976	SELECTED RUNOFF EVENT			WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
			EVENT OF	MARCH	15 - 16, 1976 (CONTINUED)						
							3-16	800	4.707	1.8811	
								815	4.262	1.8990	
								834	3.939	1.9661	
								852	3.908	2.0269	
								920	2.746	2.1071	
								942	1.914	2.1512	
								1008	1.255	2.1867	
								1038	0.773	2.2129	
								1121	0.433	2.2352	
								1229	0.203	2.2538	
								1310	0.108	2.2593	
								1346	0.067	2.2620	



KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38

LOCATION: Northumberland County, Pennsylvania 6 miles northeast of Klingerstown, Pennsylvania: Mahantango Creek Watershed, Susquehanna River Basin. Lat. 40 deg. 42 min. 16 sec. N.; Long. 76 deg. 35 min. 16 sec. W.

AREA: 1773.00 acres 2.77 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						KLINGBRESTOWN, PENNSYLVANIA WATERSHED WE-38											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	3.89	2.30	3.20	2.81	4.10	6.38	3.71	2.62	5.37	7.97	0.95	2.20	45.50			
	Q	3.342	3.068	1.699	1.942	1.198	2.238	0.706	0.522	0.533	6.822	1.290	1.668	25.030			
STA AV	P	2.53	2.19	3.09	2.97	4.33	6.11	3.44	3.24	5.15	2.97	3.48	3.24	42.75			
	Q	2.122	2.675	2.905	2.296	1.770	2.708	0.670	0.454	1.466	1.229	1.521	2.564	22.381			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		10- 7	0.373	10- 7	0.324	10- 7	0.574	10- 7	1.318	10- 7	1.974	10- 7	2.707	10- 7	3.382	10- 6	4.214
MAXIMUMS FOR PERIOD OF RECORD																	
		6-22	0.917	6-22	0.786	6-22	1.484	6-22	3.411	6-22	6.373	6-22	10.432	6-22	12.378	6-21	14.330
		1972		1972		1972		1972		1972		1972		1972		1972	

NOTES: Watershed conditions: Mixed cover area, 4-yr rotation of corn, small grain, small grain and native grasses, most of which is heavily contoured. Vegetative cover: corn, 20.4%; small grain, 20.0%; pasture, 4.0%; hay, 12.9%; vegetables, 0.7%; idle, 0.6%; orchard, 0.5%; homesteads and roads, 3.1%; forest, 37.8%. Precipitation and runoff records began Jan. 1, 1968. Precipitation data Thiessen weighted average for rain gages MB37 and MB37. Length of record 9 yr (1968-76). For topographic and geologic maps, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968, USDA Misc. Pub. 1330, pp. 16.006-8 and 16.006-9. For long-time precipitation records, see National Weather Service records at Selinsgrove, CAA Airport, Pennsylvania.

1976 DAILY AIP TEMPERATURE (degrees F)													KLINGERSTOWN, PENNSYLVANIA WATERSHED WR-38												
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	34	24	38	28	58	39	53	33	58	42	72	62	73	55	73	53	77	46	58	52	42	27	27	0	
2	32	16	35	3	42	34	43	30	66	44	62	46	78	52	76	44	64	46	61	54	49	18	31	8	
3	34	29	28	3	38	31	52	34	55	40	75	42	81	51	77	47	70	41	69	53	42	37	17	0	
4	30	17	39	16	56	36	45	34	53	33	74	46	76	52	79	48	76	49	71	43	49	31	27	15	
5	26	10	25	20	66	44	54	31	71	31	76	42	82	54	82	53	76	56	70	41	40	31	34	13	
6	31	7	24	8	48	22	55	32	77	48	62	45	83	54	78	64	70	42	67	54	49	26	40	12	
7	36	22	22	9	49	22	55	34	70	45	82	52	77	62	74	65	79	38	73	56	46	26	50	29	
8	31	11	32	17	38	24	50	32	58	35	86	52	74	61	74	64	88	50	68	56	34	23	29	16	
9	17	4	32	12	27	23	48	28	66	31	87	53	79	55	72	62	84	53	67	44	33	14	31	16	
10	22	9	42	10	42	23	62	26	76	39	86	60	79	51	75	58	69	46	54	36	46	22	48	29	
11	26	18	47	32	43	29	52	26	67	56	84	60	79	64	84	53	70	40	56	31	40	28	48	29	
12	33	16	41	27	35	19	46	24	60	41	79	60	74	60	85	58	82	44	60	28	40	24	42	34	
13	45	14	48	36	50	29	62	24	68	35	66	56	64	60	85	62	84	48	70	34	37	21	40	8	
14	46	23	40	21	44	26	70	28	76	52	74	61	76	62	84	64	86	50	56	33	45	19	32	7	
15	31	22	44	25	51	25	75	38	80	62	88	65	81	61	78	60	74	60	71	34	39	18	44	17	
16	38	26	58	30	35	26	82	47	73	62	81	66	81	64	71	53	67	61	55	34	44	19	38	18	
17	30	7	58	38	28	18	87	49	72	57	81	60	74	49	80	49	75	56	47	34	45	16	34	26	
18	16	4	46	36	36	11	91	53	66	41	85	60	78	46	78	52	70	54	46	26	46	23	38	19	
19	26	1	56	38	63	31	89	55	50	40	82	68	82	51	78	51	79	51	46	20	59	23	48	17	
20	35	20	43	25	74	39	86	54	71	46	82	68	85	58	81	48	72	50	55	44	42	30	51	31	
21	31	22	54	24	67	38	82	58	72	51	81	71	76	66	85	51	68	43	48	31	42	25	31	15	
22	23	6	58	27	41	22	72	47	68	43	81	70	80	64	90	59	60	36	45	26	32	25	26	12	
23	15	2	31	18	51	18	72	46	68	38	84	67	69	64	88	58	72	34	51	24	32	21	34	13	
24	27	14	54	19	64	29	67	39	66	44	82	64	85	66	86	60	65	36	46	37	32	20	24	10	
25	33	9	67	32	56	33	52	47	62	46	85	70	74	51	83	59	69	36	53	42	39	24	31	10	
26	58	33	65	33	67	28	51	37	54	41	84	61	77	45	88	66	65	46	42	30	58	24	34	18	
27	56	28	60	32	62	44	45	33	74	41	88	58	78	55	78	65	68	56	39	26	62	40	22	15	
28	28	19	60	28	56	39	60	38	75	45	87	60	86	57	82	65	64	38	42	17	52	38	27	17	
29	37	24	62	28	57	29	63	36	69	61	83	64	79	68	82	56	64	35	57	20	38	12	25	7	
30	26	19			55	42	65	33	69	62	80	64	81	68	70	46	54	42	52	24	20	2	16	13	
31	28	13			47	41			72	62			81	64	72	37			52	38			14	9	
AV.	32	16	45	23	50	29	63	38	67	46	80	59	78	58	80	56	72	46	56	36	42	24	33	16	
MEAN	23.8		34.3		39.7		50.2		56.4		69.6		68.0		67.8		59.1		46.3		33.1		24.5		
STA AV	34	19	36	20	45	29	59	38	67	48	76	57	81	61	80	60	73	52	60	42	48	33	37	25	

NOTES: Temperature data taken from hygrothermograph charts. The recording period is from 2400 the preceding day to 2400 the date shown. Data recorded at MD38 meteorological station. STA AV values are based on 9 yr (1968-76) record period.

Cooperative Research Project with USDA, Soil Conservation Service, The Pennsylvania State University Agricultural Experiment Station, and the Institute for Research on Land and Water Resources of the Pennsylvania State University

1976 DAILY PRECIPITATION (inches) KLINGESTOWN, PENNSYLVANIA WATERSHED WE-38												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.20E	0.65	0.05	0.80	0.45	0.30E	0.05E	0.0 E	0.0 E	0.20E	0.0	0.0
2	0.0 E	0.10	0.10	0.15	0.05	0.0 E	0.0 E	0.0 E	0.15E	0.05E	0.0	0.0
3	0.35E	0.3	0.0	0.0	0.15	0.0 E	0.10E	0.0 E	0.0 E	0.28E	0.10	0.0
4	0.0 E	0.0	0.30	0.05	0.0	0.0 E	0.0 E	0.0 E	0.0 E	0.0 E	0.05	0.0
5	0.0 E	0.20	0.10	0.0	0.0	0.0 E	0.0 E	0.0 E	0.0 E	0.0 E	0.05	0.0
6	0.0 E	0.10	0.05	0.0	0.0	0.15E	0.0 E	0.05E	0.0 E	0.0 E	0.05	0.15
7	0.25E	0.0	0.10	0.0	0.10	0.0 E	0.45E	0.15E	0.0 E	0.09E	0.45	1.35
8	0.0 E	0.0	0.0	0.0	0.0	0.0 E	0.10E	0.50E	0.0 E	1.78E	0.0	0.0
9	0.0	0.3	0.25	0.0	0.0	0.0 E	0.0 E	0.15E	0.0 E	3.35E	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0 E	0.05E	0.15E	1.35E	0.0 E	0.45	0.0
11	0.10	0.0	0.10	0.0	0.25	0.0 E	0.86E	0.0 E	0.0 E	0.05E	0.0	0.0
12	0.0	0.0	0.20	0.0	0.0	0.0 E	0.0 E	0.0 E	0.05E	0.05E	0.0	0.0
13	0.20	0.0	0.20	0.0	0.0	0.0 E	0.05E	0.29E	0.05E	0.05E	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0 E	0.0 E	0.0 E	0.15E	0.05E	0.0 E	0.0	0.0
15	0.0	0.3	0.0	0.0	0.0 E	0.05E	0.20E	0.98E	0.10E	0.05E	0.0	0.0
16	0.0	0.50	0.10	0.05	1.35E	0.10E	0.0 E	0.05E	1.10E	0.0 E	0.0	0.0
17	0.0	0.15	0.0	0.05	0.05E	0.05E	0.0 E	0.05E	0.31E	0.0 E	0.0	0.0
18	0.0	0.30	0.0	0.05	0.55E	0.05E	0.0 E	0.0 E	0.05E	0.0 E	0.0	0.0
19	0.0	0.3	0.0	0.05	0.05E	0.05E	0.0 E	0.0 E	0.0 E	0.0 E	0.0	0.05
20	0.05	0.0	0.0	0.41	0.25E	1.10E	0.0 E	0.05E	0.10E	0.74E	0.0	0.20
21	0.05	0.0	0.30	0.0	0.10E	1.18E	0.0 E	0.05E	0.0 E	0.05E	0.0	0.0
22	0.0	0.10	0.0	0.05	0.0 E	0.95E	0.0 E	0.0 E	0.0 E	0.0 E	0.0	0.0
23	0.0	0.0	0.05	0.0	0.0 E	1.70E	0.90E	0.0 E	0.0 E	0.0 E	0.0	0.0
24	0.05	0.0	0.05	0.05	0.0 E	0.0 E	0.0 E	0.0 E	0.0 E	0.21E	0.0	0.0
25	0.05	0.0	0.0	0.90	0.10E	0.0 E	0.0 E	0.0 E	0.0 E	0.27E	0.0	0.10
26	1.19	0.05	0.0	0.10	0.20E	0.0 E	0.0 E	0.0 E	0.80E	0.0 E	0.05	0.15
27	1.30	0.05	0.95	0.0	0.0 E	0.0 E	0.0 E	0.0 E	0.86E	0.0	0.05	0.10
28	0.10	0.05	0.0	0.0	0.05E	0.40E	0.0 E	0.0 E	0.0 E	0.0	0.05	0.05
29	0.0	0.05	0.0	0.05	0.15E	0.05E	0.79E	0.0 E	0.0 E	0.0	0.45	0.0
30	0.0	0.0	0.0	0.05	0.25E	0.25E	0.0 E	0.0 E	0.40E	0.25	0.0	0.05
31	0.0	0.30	0.0	0.0	0.0 E	0.16E	0.0 E	0.0 E	0.50	0.50	0.0	0.0
TOTAL	3.89	2.30	3.20	2.81	4.10	6.38	3.71	2.62	5.37	7.97	0.95	2.20
STA AV	2.53	2.19	3.09	2.97	4.33	6.11	3.44	3.24	5.15	2.97	3.48	3.24

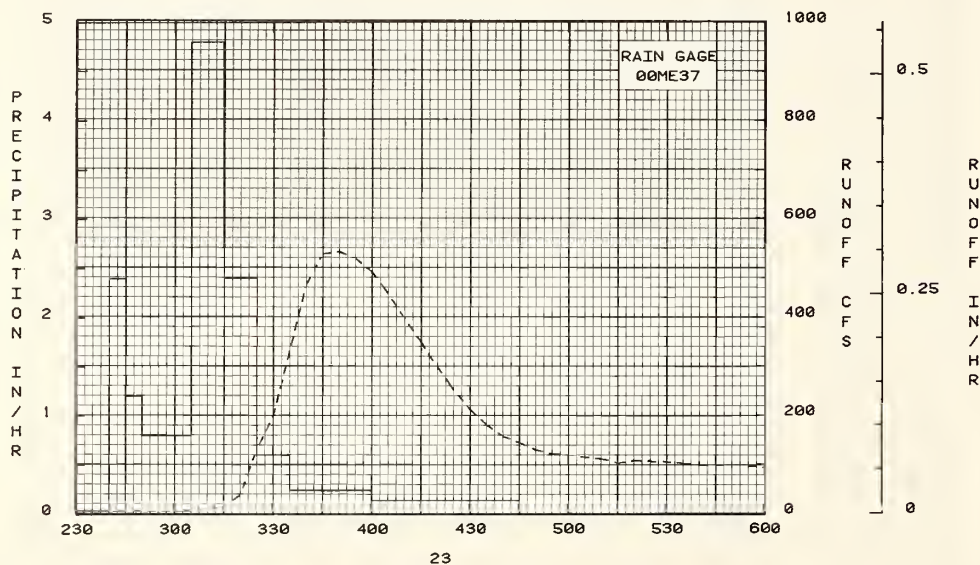
NOTES: Precipitation values are Thiessen weighted average of rain gages MB37 and MB37. STA AV values are based on 9 yr (1968-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) KLINGESTOWN, PENNSYLVANIA WATERSHED WE-38												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	10.16	15.69	3.26	22.95E	3.09	1.91	3.40	0.97	0.56	3.70E	10.76	1.20
2	7.78	13.18	3.18	19.36E	2.91	1.95	2.77	0.85	0.65	5.78E	9.25	1.19
3	7.33	6.61	3.12	12.28E	2.63	1.57	2.39	0.78	0.56E	10.10E	7.84	1.08
4	5.84	5.26	3.59	9.30E	2.23	1.40	2.20	0.73	0.57E	5.44E	6.81	1.15
5	4.43	4.45	3.32	7.37E	2.06	1.28	1.92	0.69	0.54E	4.16E	5.72	1.06
6	3.82	4.10	3.13	6.33E	2.01	1.35	1.68	0.73	0.46E	6.30E	4.84	1.03
7	3.70	3.63	2.94	5.33E	1.96	1.27	2.09	0.79	0.44E	160.10E	4.26	23.41
8	3.49	3.40	2.69	4.57E	1.71	1.16	1.71	1.44	0.42E	85.47E	3.76	16.69
9	2.99	2.96	2.60	3.95E	1.64	1.12	1.53	0.91	0.41E	23.71E	3.38	9.46
10	2.66	2.87	2.69	3.56E	1.59	1.05	1.36	1.17	2.27E	13.28E	3.24	7.08
11	2.53	11.69	2.94	3.37E	1.71	1.01	5.22	0.87	0.78E	9.67E	3.02	5.84
12	2.46	7.68	2.78	2.97E	1.60	0.94	2.43	0.81	0.63E	8.00E	2.72	5.23
13	2.81	7.45	5.02	2.79E	1.41	0.89	1.90	0.98	0.53E	6.53E	2.48	4.09
14	11.31	6.25	5.21	2.56E	1.34	0.89	1.64	0.88	0.48E	5.30E	2.34	3.58
15	3.81	3.57	5.47	2.39E	1.27	0.86	1.58	4.74	0.49E	4.38E	2.20	3.26
16	3.00	23.35	5.38	2.19E	3.77	0.89	1.43	4.68	2.12E	3.84E	2.04	3.15
17	2.16	21.06	4.63	1.96E	5.45	0.84	1.25	2.89	2.09E	3.27E	1.91	2.96
18	2.81	13.37	3.93	1.82E	6.99	0.74	1.14	1.93	1.65E	5.25E	1.93	2.52
19	1.86	12.27	3.74	1.74E	5.98	0.72	1.08	1.50	1.31E	10.05E	1.82	2.30
20	1.61	9.31	3.41	2.23E	5.44	2.44	1.03	1.29	1.15E	12.23E	1.67	2.33
21	1.66	7.57	3.80	1.85E	5.21	5.16	1.05	1.16	1.02E	14.44E	1.64	2.33
22	1.57	8.71	3.21	1.69E	3.99	8.21	0.99	1.08	0.87E	9.76E	1.53	2.33
23	3.02	7.24	2.91	1.53E	3.46	67.97	1.84	0.99	0.79E	7.91E	1.40	2.33
24	1.40	5.97	2.80	1.54E	3.20	23.79	1.31	0.90	0.71E	8.60E	1.36	2.33
25	1.25	5.12	2.73	3.80E	2.86	11.34	1.04	0.87	0.69E	15.42E	1.31	2.33
26	52.25	4.55	2.54	3.56E	2.91	7.26	0.94	0.81	1.52E	15.74E	1.29	2.33
27	48.88	4.09	5.74	3.23E	2.40	5.41	0.92	0.82	4.60E	13.46	1.29	2.33
28	25.88	3.76	8.51	3.07	2.08	5.03	0.84	0.79	4.38E	9.74	1.23	2.33
29	12.32	3.45	8.23	2.82	1.98	4.24	1.62	0.69	3.51E	7.61	1.83	2.33
30	8.04	7.01E	2.60	2.43	2.43	4.02	1.23	0.59	3.54E	6.49	1.24	2.33
31	6.18	6.02E	1.58	1.58	1.58	1.58	1.05	0.56	12.47	12.47	1.521	2.33
MEAN	8.032	7.882	4.082	4.822	2.880	5.557	1.697	1.255	1.324	16.392	3.204	4.009
INCHES	3.342	3.168	1.699	1.942	1.198	2.236	0.706	0.522	0.533	6.822	1.290	1.668
STA AV	2.122	2.675	2.905	2.296	1.770	2.708	0.670	0.454	1.466	1.229	1.521	2.564

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.013425. Records are good. Some periods of winter records are affected by ice on control, no adjustments were made for these records. STA AV values are based on 9 yr (1968-76) record period.

1976 SELECTED RUNOFF EVENT			KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 22 - 23, 1976										
RG 00ME37			RG 00ME37							
6-22	0.30	0.110	6-22	2400	0.0	0.0	6-22	2400	7.271	0.0
			6-23	240	0.0375	0.10	6-23	40	7.025	0.0003
				245	2.4000	0.30		245	7.025	0.0085
				250	1.2001	0.40		305	8.037	0.0089
				305	0.8000	0.60		315	15.186	0.0095
WATERSHED CONDITIONS: Mixed cover area, 4-yr rotation of corn, small grain, small grain and native grasses, most of which is heavily contoured. Vegetative cover: Corn, 20.4%; small grain, 20.0%; pasture, 4.0%; hay, 12.9%; vegetables, 0.7%; idle, 0.6%; orchard, 0.5%; homesteads and roads, 3.1%; forest, 37.8%.				310	4.7999	1.00		320	40.143	0.0108
				315	4.8001	1.40		325	130.881	0.0148
				320	2.4000	1.60		330	199.490	0.0225
				325	2.4000	1.80		335	331.136	0.0348
				335	0.6000	1.90		340	466.592	0.0534
				400	0.2400	2.00		345	529.612	0.0766
				445	0.1333	2.10		350	533.064	0.1014
								355	519.333	0.1259
								400	492.530	0.1495
								405	447.698	0.1714
								410	396.750	0.1911
								415	349.523	0.2085
								420	298.593	0.2236
								425	252.493	0.2364
								430	211.045	0.2472
								435	181.112	0.2564
								440	157.187	0.2643
								445	144.439	0.2713
								450	129.425	0.2777
								455	120.897	0.2835
								510	111.395	0.2888
								515	102.365	0.2937
								520	107.467	0.2986
								535	102.365	0.3034
								540	98.638	0.3081
								555	96.201	0.3126
								600	92.614	0.3170

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000559.



EVENT OF JUNE 22 - 23, 1976
KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38

MCCREDIE, MISSOURI STATION RESERVOIR W-1

LOCATIDN: Callaway County, Mo.: 1 mi. S.E. of McCredie; Crows Fork Creek, Auxvasse Watershed, Missouri River Basin.
Lat. 38 deg. 56 min. 54 sec. N.; Long. 91 deg. 54 min. 37 sec. W.

AREA: 153.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							MCCREDIE, MISSOURI STATION RESERVOIR W-1												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	0.78	1.37	3.72	1.96	2.47	2.47	0.05	0.41	0.83	5.81	1.04	0.36	21.77					
	Q	0.270	0.812	1.136	0.021	0.0	0.016	0.0	0.0	0.0	0.025	0.019	0.0	2.300					
STA AV	P	1.54	1.59	2.84	3.65	4.27	4.35	3.44	2.95	3.82	3.54	2.08	1.77	35.84					
	Q	0.702	0.707	1.259	1.109	0.873	0.986	0.474	0.140	0.494	0.989	0.447	0.440	8.621					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		3- 4	0.236	3- 4	0.174	3- 4	0.309	3- 4	0.535	3- 4	0.600	3- 3	0.921	3- 3	0.997	2-26	0.997		
MAXIMUMS FOR PERIOD OF RECORD																			
		10-13	2.269	10-13	1.365	10-13	2.236	10- 4	3.960	10- 4	7.000	10- 4	7.775	10- 3	8.090	10- 2	8.840		
		1968		1968		1968		1941		1941		1941		1941		1941			

NOTES: Watershed conditions: 42% Pasture and meadow; 37% corn; 13% soybeans; 2% grain sorghum; and 6% roads and farmsteads. Precipitation Thiessen average of 4 recording gages and 1 non-recording gage. Precipitation and runoff records began Jan. 1, 1941. Runoff amounts, or rates, which are reported as inches or inches per hour, respectively, were computed with a constant watershed area of 153 acres, including reservoir surface area. For topographic map of watershed, see hydrologic data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 25.1-13. For long-time precipitation records, see National Weather Service records at Columbia, Missouri (1890-1976).

1976 DAILY AIR TEMPERATURE (degrees F)													MCCREDIE, MISSOURI STATION RESERVOIR W-1	
Day		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
		max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	
1		35 30	38 31	70 42	59 36	64 48	79 60	78 55	85 58	87 64	90 45	62 32	36 25	
2		42 28	20 16	80 61	78 35	64 48	76 60	78 58	82 62	87 60	90 50	65 41	34 19	
3		30 16	35 4	74 36	78 50	55 30	76 52	71 55	82 55	86 58	88 54	63 38	44 14	
4		18 6	37 19	72 33	62 40	70 32	75 57	78 62	86 64	89 65	76 60	48 29	38 19	
5		35 14	25 21	69 23	66 38	77 56	76 60	84 58	89 64	88 49	64 48	46 22	39 20	
6		46 25	22 16	45 21	73 42	73 44	78 58	84 59	89 63	90 55	58 37	61 34	37 28	
7		43 6	32 7	55 26	75 50	58 36	83 52	87 64	76 56	88 53	55 37	57 32	19 0	
8		6 -5	40 26	45 33	71 42	64 36	84 57	89 67	79 48	88 62	58 35	51 19	23 4	
9		24 -3	59 28	54 32	62 34	68 38	84 57	90 64	84 54	79 56	65 39	65 39	49 19	
10		36 16	70 50	54 38	73 38	67 49	83 60	91 69	94 62	75 43	68 36	63 30	48 25	
11		38 20	64 33	59 33	72 52	74 52	84 61	91 68	94 67	82 45	79 46	42 27	28 15	
12		47 24	59 33	59 32	62 29	76 46	84 63	92 72	86 69	84 53	83 52	33 17	43 27	
13		45 32	59 37	40 24	73 42	76 53	89 67	94 72	92 63	88 57	83 50	32 16	35 10	
14		33 19	53 29	52 23	79 51	66 48	88 67	94 70	89 63	89 63	76 38	41 18	51 26	
15		41 22	68 52	41 34	79 63	70 56	88 67	92 70	84 61	85 63	76 52	46 24	51 28	
16		40 21	70 50	39 23	78 67	66 54	79 52	85 66	82 63	82 54	59 31	46 22	47 28	
17		28 10	67 34	52 23	76 67	66 51	84 55	78 52	85 61	82 48	49 28	56 27	55 34	
18		36 10	52 41	68 36	76 59	67 45	84 66	87 53	85 58	87 54	51 30	70 36	61 31	
19		35 29	55 39	75 47	59 48	75 43	74 51	92 66	85 52	89 62	50 42	69 36	57 39	
20		34 14	64 32	74 54	70 57	78 50	78 50	93 68	85 53	73 63	49 39	54 32	25 18	
21		35 28	64 36	61 36	69 53	83 55	82 50	94 73	88 59	73 47	55 32	50 28	25 8	
22		44 21	45 24	45 34	79 48	83 56	82 60	95 68	91 59	83 43	58 25	37 22	42 17	
23		57 31	60 25	64 31	82 57	78 55	78 60	96 67	90 61	82 59	57 45	38 26	40 22	
24		57 33	70 41	64 49	82 62	69 51	80 64	96 74	90 63	78 48	54 48	50 23	53 17	
25		43 30	66 47	63 42	62 42	69 44	80 60	93 62	86 63	78 58	49 43	64 37	46 26	
26		25 18	63 37	73 60	50 33	72 46	84 59	96 66	93 64	70 58	52 36	62 38	44 27	
27		28 2	75 37	72 39	50 39	72 55	88 66	97 70	94 64	67 57	50 38	38 19	59 27	
28		43 20	74 42	60 42	51 42	74 56	78 73	89 71	94 63	68 56	50 28	21 13	50 20	
29		43 32	68 50	62 48	62 36	76 54	83 67	91 71	85 53	68 54	51 30	24 8	29 6	
30		43 36		62 42	64 40	76 60	83 58	90 67	88 52	78 45	50 38	32 12	22 2	
31		35 26		53 36		79 60		90 74	87 62		55 41		9 -10	
AV.		37 20	54 32	60 37	69 46	71 49	81 60	89 66	87 60	81 55	63 40	50 27	40 19	
MEAN		28.4	43.3	48.3	57.8	59.9	70.6	77.2	73.6	68.3	51.7	38.1	29.6	
STA AV		39 20	43 23	52 30	67 43	75 52	83 61	88 65	88 63	81 55	70 45	54 33	41 24	

NOTES: Temperature data taken daily with the maximum and minimum thermometers, except on weekends and holidays, when data taken from hygrothermograph charts. The recording period is from 1700 of the previous day to 1700 of the day on which values are recorded. STA AV based on 36 yr (1941-76) record period.

1969 DAILY PRECIPITATION (inches) MCCREDIE, MISSOURI STATION RESERVOIR W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.09	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.01	1.04	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0	0.0
5	0.0	0.29	0.0	0.0	0.15	0.01	0.0	0.09	0.0	1.40	0.0	0.0
6	0.01	0.0	0.0	0.0	0.34	0.06	0.0	0.18	0.0	0.0	0.0	0.25
7	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.46	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.21	0.0	0.34	0.06	0.05	0.0	0.0	0.0	0.0	0.0
16	0.0	0.56	0.04	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.03	0.0	0.0	0.91	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0
20	0.0	0.26	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.56	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	2.64	0.10	0.0
24	0.0	0.0	0.0	0.03	0.0	2.08	0.0	0.0	0.0	0.0	0.0	0.0
25	0.15	0.0	0.0	0.07	0.0	0.0	0.0	0.06	0.39	0.0	0.36	0.0
26	0.0	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.58	0.0
27	0.0	0.0	0.02	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.01	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.11
29	0.0	0.0	0.37	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.87	0.0	0.0
31	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.78	1.87	3.72	1.96	2.47	2.47	0.05	0.41	0.83	5.81	1.04	0.36
STA AV	1.54	1.59	2.84	3.65	4.27	4.35	3.44	2.95	3.82	3.54	2.08	1.77

NOTES: Precipitation data are Thiessen weighted values for 4 recording rain gages and 1 non-recording rain gage. STA AV values are for 36 yr (1941-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) MCCREDIE, MISSOURI STATION RESERVOIR W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.653	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.267	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.402	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	5.829	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.220	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.715	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.830	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	2.058	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.137	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	2.336	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.106	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.217	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.123	0.0
27	0.0	0.0	0.296	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.384	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.163	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0564	0.1811	0.2372	0.0046	0.0	0.0035	0.0	0.0	0.0	0.0053	0.0041	0.0
INCHES	0.270	0.812	1.136	0.021	0.0	0.016	0.0	0.0	0.0	0.025	0.019	0.0
STA AV	0.702	0.707	1.259	1.109	0.873	0.986	0.474	0.140	0.494	0.989	0.447	0.440

NOTES: To convert mean daily discharge in CFS to IN/DAV, multiply by 0.155557. STA AV values are for 36 yr (1941-76) record period.

COSHOCTON, OHIO WATERSHED 102

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 22 min. 25 sec. N.; Long. 81 deg. 47 min. 42 sec. W.

AREA: 1.26 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 102													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1976	P	2.74	2.89	4.08	2.22	2.10	5.04	5.16	3.66	2.12	2.59	0.60	1.20	34.40													
	Q	0.095	0.169	0.001	0.000	0.000	0.001	0.006	0.001	0.0	0.0	0.0	0.0	0.273													
STA AV	P	2.01	2.31	3.96	3.34	3.82	4.38	4.08	3.26	2.57	2.37	2.50	2.45	37.04													
	Q	0.041	0.081	0.090	0.061	0.009	0.124	0.143	0.035	0.019	0.009	0.007	0.001	0.619													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge Date	1 Hour Date	2 Hours Date	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date																		
1976		2-10	0.079	2-10	0.075	2-10	0.125	2-10	0.168	2-10	0.169	2-9	0.169	2-8	0.169	2-2	0.169										
MAXIMUMS FOR PERIOD OF RECORD																											
		6-12	3.640	6-12	1.310	7-5	1.427	7-5	2.470	7-5	2.470	7-5	2.470	7-5	2.470	6-29	2.597										
		1957		1957		1969		1969		1969		1969		1969		1969											

NOTES: Watershed conditions: Pasture with a cover of orchardgrass. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pnb. 945, p. 26.1-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pnb. 1070, pp. 26.1-1 and 26.30-3. Precipitation data from rain gage Y101. Precipitation and runoff records began April 1937. Watershed discontinued Jan. 1, 1947 to Apr. 25, 1957 and Dec. 31, 1957 to March 29, 1960. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976		DAILY PRECIPITATION (inches)					COSHOCTON, OHIO WATERSHED 102							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.03S	0.0	0.20M	0.06	0.77	0.0 T	0.01	0.0 T	0.0	0.0	0.0		
2	0.17	0.0 T	0.15	0.09M	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.18	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T		
4	0.0	0.0	0.69	0.05M	0.0	0.0	0.0	0.0	0.10	0.0	0.0 T	0.0		
5	0.0	0.55M	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0		
6	0.0	0.02S	0.0	0.0	0.25	0.0	0.0	0.50	0.0	0.08	0.0	0.42		
7	0.53S	0.0	0.0	0.0	0.04	0.0	0.15	0.85	0.0	0.0 T	0.0 T	0.14		
8	0.14S	0.07S	0.0	0.0	0.0	0.0	1.25	0.0	0.0	0.0	0.0	0.0 T		
9	0.0	0.0	0.02S	0.0	0.0	0.0	0.0	0.0	0.55	0.49	0.0 T	0.0		
10	0.0	0.0	0.32	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0 T	0.0		
11	0.12M	0.0	0.0	0.02	0.04	0.38	1.64	0.0	0.0	0.0	0.0	0.0 T		
12	0.0	0.0 T	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0		
13	0.50	0.0	0.03S	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0		
15	0.0	0.02E	0.0	0.0	0.04	0.0	0.50	0.59	0.0	0.0 T	0.0	0.0		
16	0.10S	0.22E	0.23S	0.0	0.56	0.40	0.52	0.0	0.28	0.0	0.0	0.0 T		
17	0.0	0.24	0.0	0.0	0.20	0.0	0.0	0.0	0.27	0.0	0.0	0.0		
18	0.0	1.22	0.0 T	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.02S	0.0	0.0 T	0.0	0.0	1.04	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.17S	0.0	0.35	0.0	0.0	0.12	0.0	0.0	0.31	0.55	0.0	0.24M		
21	0.06S	0.40	0.77	0.93	0.0	0.0	0.07	0.0	0.0	0.0 T	0.06S	0.04S		
22	0.01S	0.10	0.0	0.26	0.0	0.01	0.0 T	0.0	0.0	0.0	0.0 T	0.0		
23	0.0	0.02S	0.0	0.0	0.0	0.02	0.30	0.0	0.0	0.18	0.0	0.0 T		
24	0.0	0.0	0.0	0.0	0.0	1.44	0.01	0.0	0.0	0.60	0.05M	0.0		
25	0.37	0.0	0.06	0.67	0.0 T	0.30	0.0	0.54	0.0	0.0 T	0.0	0.15SZ		
26	0.28M	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.14	0.41	0.0	0.12	0.16SZ		
27	0.0	0.0 T	0.24	0.0 T	0.0	0.0	0.03	0.0	0.16	0.0 T	0.09	0.01SZ		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.12	0.0	0.0	0.18S	0.01SZ		
29	0.02S	0.0	0.0 T	0.0	0.0	0.12	0.11	0.0	0.0	0.0	0.10S	0.02SZ		
30	0.07S		0.01	0.0	0.0	0.44	0.0 T	0.0	0.04	0.30	0.0	0.01SZ		
31	0.0		0.57		0.62		0.10	0.0		0.39		0.0		
TOTAL	2.74	2.89	4.08	2.22	2.10	5.04	5.16	3.66	2.12	2.59	0.60	1.20		
STA AV	2.01	2.31	3.96	3.34	3.82	4.38	4.08	3.26	2.57	2.37	2.50	2.45		

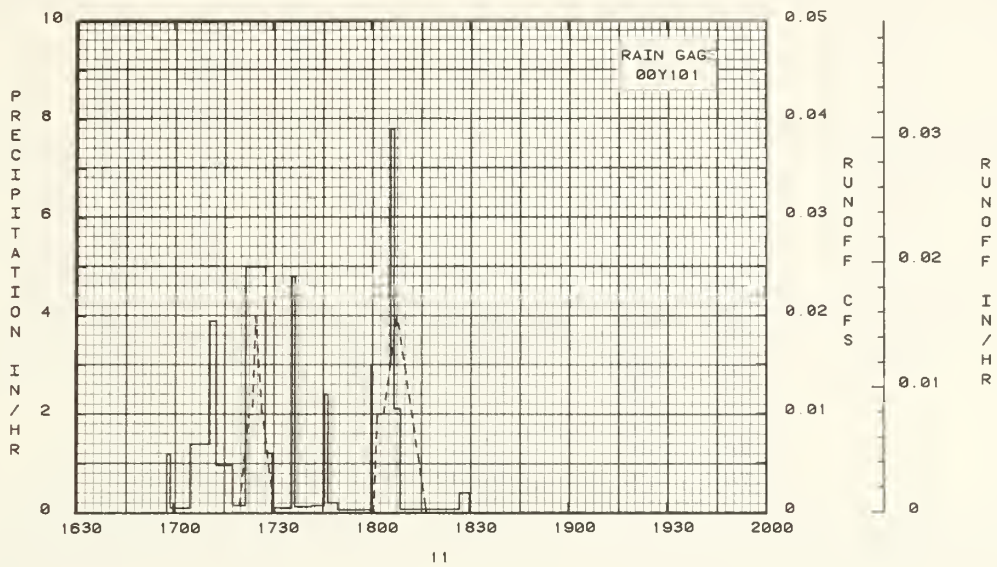
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage Y101. STA AV values are based on 28 yr (1937-Jan. 1947, April 1957-Dec. 1957, March 1960-76) record period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 102												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.009	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
25	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0
26	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0 T		0.0	0.0		0.0		0.0
MEAN	0.0002	0.0003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.095	0.169	0.001	0.000	0.000	0.001	0.006	0.001	0.0	0.0	0.0	0.0
STA AV	0.041	0.081	0.090	0.061	0.009	0.124	0.143	0.035	0.019	0.009	0.007	0.001

NOTES: To convert CFS to IN/DAY, multiply by 18.8902. STA AV values are based on 28 yr (1937-Jan. 1947, April 1957-Dec. 1957, March 1960-76) record period, part-year records included.

1976 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 102											
ANTECEDENT CONDITIONS			RAINFALL								
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 11, 1976											
RG 00Y101			EG 00Y101								
7-11	0.0	0.0	7-11	1658	0.0	0.0	7-11	1708	0.0	0.0	
				1659	1.2003	0.02		1711	0.001	0.0000	
				1705	0.0999	0.03		1720	0.001	0.0001	
				1711	1.4000	0.17		1723	0.010	0.0004	
				1713	3.9001	0.30		1724	0.013	0.0005	
WATERSHED CONDITIONS:				1718	0.9598	0.38		1725	0.017	0.0007	
Orchardgrass pasture.				1722	0.1501	0.39		1727	0.013	0.0011	
				1728	5.0000	0.89		1731	0.003	0.0015	
				1730	1.1998	0.93		1733	0.001	0.0016	
				1736	0.1001	0.94		1736	0.001	0.0016	
				1737	4.8012	1.02		1740	0.0	0.0016	
				1742	0.1199	1.03		1748	0.0	0.0016	
				1746	0.1499	1.04		1753	0.0	0.0016	
				1747	2.4005	1.08		1758	0.0	0.0016	
				1750	0.1999	1.09		1800	0.003	0.0017	
				1800	0.0600	1.10		1801	0.005	0.0017	
				1806	3.0000	1.40		1802	0.010	0.0018	
				1807	7.8019	1.53		1804	0.010	0.0021	
				1809	2.0998	1.60		1808	0.025	0.0030	
				1827	0.0667	1.62		1817	0.003	0.0047	
				1830	0.4001	1.64		1823	0.0	0.0048	
								1840	0.0	0.0048	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.78772000.



EVENT OF JULY 11, 1976
COSHOCTON, OHIO WATERSHED 102

COSHOCTON, OHIO WATERSHED 129

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin. Lat. 40 deg. 22 min. 19 sec. N.; Long. 81 deg. 47 min. 52 sec. W.

AREA: 2.71 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								COSHOCTON, OHIO WATERSHED 129							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P	2.61	2.85	3.84	2.01	2.07	4.72	5.13	3.56	1.95	2.56	0.60	1.06	32.96	
	Q	1.546	0.642	0.290	0.110	0.004	0.029	1.117	0.015	0.001	0.0	0.0	0.089	3.843	
STA AV	P	2.66	2.42	3.50	3.42	3.75	3.92	4.23	3.01	2.66	2.11	2.42	2.34	36.45	
	Q	0.151	0.189	0.159	0.095	0.048	0.150	0.147	0.059	0.051	0.015	0.011	0.045	1.118	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		7-11	2.781	7-11	0.860	7-11	0.921	7-11	0.921	7-11	0.921	1-25	0.949	1-24	1.134
MAXIMUMS FOR PERIOD OF RECORD															
		7-11	2.781	6-12	0.980	9-1	1.010	3-4	1.530	3-4	2.420	3-4	2.900	3-3	3.510
		1976		1957		1950		1963		1963		1963		1963	

NOTES: Watershed conditions: Grass pasture. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.3-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.3-1 and 26.30-3. Precipitation data from rain gage 100. Precipitation and runoff records began April, 1938. Runoff measurements discontinued June 1972 to March 1974. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976 DAILY PRECIPITATION (inches) COSHOCTON, OHIO WATERSHED 129													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.02S	0.0	0.12M	0.09	0.78	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0	
2	0.16	0.0 T	0.11	0.09M	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.15	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	
4	0.0	0.0	0.68	0.05M	0.0	0.0	0.0	0.0	0.08	0.0	0.0 T	0.0	
5	0.0	0.65M	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	
6	0.0	0.05S	0.0	0.0	0.24	0.0	0.0	0.50	0.0	0.07	0.0	0.43	
7	0.51S	0.0	0.0	0.0	0.06	0.0	0.11	0.90	0.0	0.0 T	0.0 T	0.14	
8	0.11S	0.03S	0.0	0.0	0.0	0.0	1.40	0.0	0.0	0.0	0.0	0.0 T	
9	0.0	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.49	0.49	0.0 T	0.0	
10	0.0	0.0	0.29	0.0	0.0	0.0	0.30	0.0	0.0 T	0.0	0.02	0.0	
11	0.08M	0.0	0.0	0.02	0.04	0.26	1.77	0.0	0.0	0.0	0.0	0.0 T	
12	0.0	0.0 T	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	
13	0.46	0.0	0.02S	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	
15	0.0	0.02	0.0	0.0	0.06	0.0	0.31	0.59	0.0	0.0 T	0.0	0.0	
16	0.08S	0.24	0.20S	0.0	0.54	0.35	0.54	0.0	0.29	0.0	0.0	0.0 T	
17	0.0	0.22	0.0	0.0	0.21	0.0	0.0	0.0	0.24	0.0	0.0	0.0	
18	0.0	1.12	0.0 T	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.01S	0.0	0.0 T	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.15S	0.0	0.38	0.0	0.0	0.12	0.0	0.0	0.30	0.54	0.0	0.18M	
21	0.05S	0.39	0.71	0.86	0.0	0.0	0.02	0.0	0.0	0.0 T	0.04S	0.03S	
22	0.01S	0.10M	0.0	0.23	0.0	0.02	0.0 T	0.0	0.0	0.0	0.0 T	0.0	
23	0.0	0.01S	0.0	0.0	0.0	0.02	0.25	0.0	0.0	0.19	0.0	0.0 T	
24	0.0	0.0	0.0	0.0	0.0	1.33	0.05	0.0	0.0	0.61	0.05M	0.0	
25	0.44	0.0	0.08	0.64	0.0 T	0.28	0.0	0.41	0.0	0.0 T	0.0	0.12SZ	
26	0.30M	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.17	0.36	0.0	0.13	0.11SZ	
27	0.0	0.0 T	0.20	0.0 T	0.0	0.0	0.04	0.0	0.15	0.0 T	0.07	0.02S	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.13	0.0	0.0	0.25S	0.0 T	
29	0.01S	0.0	0.0 T	0.0	0.0	0.17	0.11	0.0	0.0	0.0	0.04S	0.02S	
30	0.09S		0.01	0.0	0.0	0.39	0.02	0.0	0.04	0.34	0.0	0.01S	
31	0.0		0.57		0.56		0.06	0.0		0.32		0.0	
TOTAL	2.61	2.85	3.84	2.01	2.07	4.72	5.13	3.56	1.95	2.56	0.60	1.06	
STA AV	2.66	2.42	3.50	3.42	3.75	3.92	4.23	3.01	2.66	2.11	2.42	2.34	

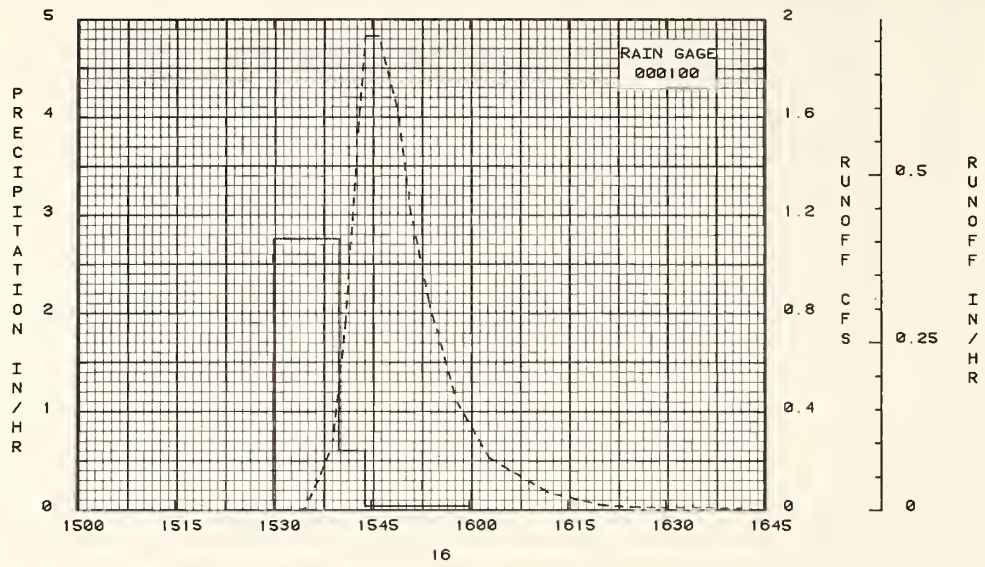
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 100. STA AV values are based on 38 yr (1938-76) record period, part-year records included (gage 100 discontinued June 1972 to March 1974). Codes 'E' may reflect estimated storm duration rather than estimated rainfall amount. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 129												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.008
7	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.002
8	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0
10	0.0	0.057	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
11	0.0	0.031	0.0	0.0	0.0	0.0 T	0.105	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.043	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0
14	0.056	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0 T	0.0	0.019	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0
18	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.021	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.018	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
25	0.070	0.0	0.0	0.005	0.0	0.003	0.0	0.0 T	0.0	0.0	0.0	0.0
26	0.039	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
MEAN	0.0057	0.0025	0.0011	0.0004	0.0	0.0031	0.0041	0.0001	0.0	0.0	0.0	0.0003
INCHES	1.586	0.642	0.290	0.110	0.004	0.029	1.117	0.015	0.001	0.0	0.0	0.089
STA AV	0.151	0.189	0.159	0.095	0.008	0.150	0.147	0.059	0.051	0.015	0.011	0.045

NOTES: To convert CFS to IN/DAY, multiply by 8.7829. STA AV values are based on 38 yr (1938-76) record period, part-year records included.

1976 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 129											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 16, 1976											
RG 000100			RG 000100								
7-16	0.03	0.0	7-16	1530	0.0	0.0	7-16	1534	0.0	0.0	
				1540	2.7599	0.46		1535	0.006	0.0000	
				1544	0.6001	0.50		1539	0.265	0.0033	
				1600	0.0375	0.51		1541	0.764	0.0096	
								1543	1.580	0.0239	
WATERSHED CONDITIONS:								1544	1.930	0.0346	
Badly tramped grass								1546	1.930	0.0582	
pasture, very sparse								1549	1.620	0.0506	
growth.								1551	1.203	0.1078	
								1554	0.620	0.1263	
								1558	0.438	0.1417	
								1603	0.209	0.1515	
								1612	0.067	0.1591	
								1620	0.025	0.1613	
								1626	0.012	0.1620	
								1635	0.006	0.1625	
								1703	0.0	0.1630	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.36609003.



COSHOCTON, OHIO WATERSHED 135

LOCATION: Coshocton Co., Ohio; 10 mi. NW of Coshocton; Walhonding River, Manskingum River Basin. Lat. 40 deg. 22 min. 20 sec. N.; Long. 81 deg. 47 min. 48 sec. W.

AREA: 2.69 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO		WATERSHED 135	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	2.61	2.85	3.84	2.01	2.07	4.72	5.13	3.56	1.95	2.56	0.60	1.06	32.96			
	Q	0.034	0.303	0.0	0.0	0.0	0.0	0.161	0.0	0.0	0.0	0.0	0.0	0.498			
STA AV	P	2.66	2.42	3.50	3.41	3.74	3.92	4.23	3.02	2.66	2.11	2.41	2.34	36.43			
	Q	0.040	0.126	0.105	0.034	0.016	0.095	0.069	0.036	0.036	0.035	0.001	0.010	0.601			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time		Interval		1 Day		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1976		7-11	0.453	7-11	0.149	2-10	0.225	2-10	0.303	2-10	0.393	2- 9	0.303	2- 8	0.303		
		MAXIMUMS FOR PERIOD OF RECORD															
		6-12	2.380	6-12	0.920	9- 1	0.940	3- 4	1.550	3- 4	2.190	3- 4	2.510	3- 3	3.060		
		1957		1957		1950		1963		1963		1963		1963	1963		

NOTES: Watershed conditions: Cover of improved pasture. For map of watershed, see Hydrologic data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.4-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1370, pp. 26.4-1 and 26.30-3. Precipitation data from rain gage 100. Precipitation and runoff records began April 1938. Runoff measurement discontinued Dec. 1969 to March 1974. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 135	
Day		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.02S	0.0	0.12M	0.09	0.78	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0	0.0		
2	0.16	0.0 T	0.11	0.09M	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.15	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.68	0.05M	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0 T	0.0		
5	0.0	0.65M	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0		
6	0.0	0.05S	0.0	0.0	0.24	0.0	0.0	0.50	0.0	0.07	0.0	0.0	0.43		
7	0.51S	0.0	0.0	0.0	0.06	0.0	0.11	0.90	0.0	0.0 T	0.0 T	0.0 T	0.14		
8	0.11S	0.33S	0.0	0.0	0.0	0.0	1.40	0.0	0.0	0.0	0.0	0.0	0.0 T		
9	0.0	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.49	0.49	0.0 T	0.0 T	0.0		
10	0.0	0.0	0.29	0.0	0.0	0.0	0.30	0.0	0.0 T	0.0	0.0	0.02	0.0		
11	0.08M	0.0	0.0	0.02	0.04	0.26	1.77	0.0	0.0	0.0	0.0	0.0	0.0 T		
12	0.0	0.0 T	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0		
13	0.46	0.0	0.02S	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.02	0.0	0.0	0.06	0.0	0.31	0.59	0.0	0.0 T	0.0	0.0	0.0		
16	0.08S	0.24	0.29S	0.0	0.54	0.35	0.54	0.0	0.29	0.0	0.0	0.0	0.0 T		
17	0.0	0.22	0.0	0.0	0.21	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0		
18	0.0	1.12	0.0 T	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.01S	0.0	0.0 T	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.15S	0.0	0.38	0.0	0.0	0.12	0.0	0.0	0.30	0.54	0.0	0.18M			
21	0.05S	0.39	0.71	0.86	0.0	0.0	0.08	0.0	0.0	0.0 T	0.04S	0.03S			
22	0.01S	0.10M	0.0	0.23	0.0	0.02	0.0 T	0.0	0.0	0.0	0.0 T	0.0			
23	0.0	0.31S	0.0	0.0	0.0	0.02	0.25	0.0	0.0	0.19	0.0	0.0 T			
24	0.0	0.0	0.0	0.0	0.0	1.33	0.05	0.0	0.0	0.61	0.05M	0.0			
25	0.44	0.0	0.08	0.64	0.0 T	0.28	0.0	0.41	0.0	0.0 T	0.0	0.12SZ			
26	0.30M	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.17	0.36	0.0	0.13	0.11SZ			
27	0.0	0.0 T	0.20	0.0 T	0.0	0.0	0.04	0.0	0.15	0.0 T	0.07	0.02S			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.13	0.0	0.0	0.25S	0.0 T			
29	0.01S	0.0	0.0 T	0.0	0.0	0.17	0.11	0.0	0.0	0.0	0.04S	0.02S			
30	0.09S	0.01	0.0	0.0	0.0	0.39	0.02	0.0	0.04	0.34	0.0	0.01S			
31	0.0	0.57	0.56				0.06	0.0		0.32		0.0			
TOTAL		2.61	2.85	3.84	2.01	2.07	4.72	5.13	3.56	1.95	2.56	0.60	1.06		
STA AV		2.66	2.42	3.50	3.41	3.74	3.92	4.23	3.02	2.66	2.11	2.41	2.34		

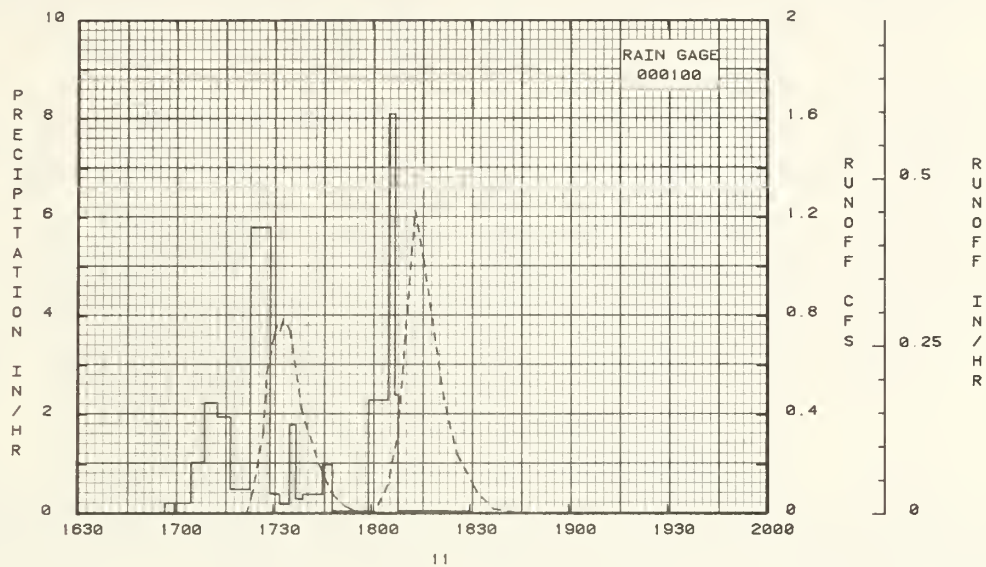
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 100. STA AV values are based on 38 yr (1938-76) record period, part-year records included (Gage 100 discontinued June 1972 to March 1974). Code 'R' may reflect estimated storm duration rather than estimated rainfall amount. Code 'Z' indicates accurately measured total for series of days has been equally divided among coded days.

1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 135												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.018	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0001	0.0012	0.0	0.0	0.0	0.0	0.0006	0.0	0.0	0.0	0.0	0.0
INCHES	0.034	0.303	0.0	0.0	0.0	0.0	0.161	0.0	0.0	0.0	0.0	0.0
STA AV	0.040	0.126	0.105	0.034	0.016	0.095	0.069	0.036	0.036	0.035	0.001	0.010

NOTES: To convert CFS to IN/DAY, multiply by 8.8483. STA AV values are based on 35 yr (1938-76) record period, part-year records included.

1976 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 135											
ANTECEDENT CONDITIONS			RAINFALL								
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 11, 1976											
RG 000100			RG 000100								
7-11	0.0	0.0	7-11	1657	0.0	0.0	7-11	1722	0.0	0.0	
				1705	0.2250	0.03		1724	0.099	0.0006	
				1709	1.0499	0.13		1727	0.328	0.0045	
				1713	2.2501	0.25		1728	0.566	0.0073	
				1717	1.9498	0.38		1730	0.712	0.0151	
WATERSHED CONDITIONS: Orchardgrass pasture, heavy growth.				1723	0.5000	0.43		1731	0.764	0.0197	
				1729	5.8090	1.01		1732	0.738	0.0243	
				1732	0.4001	1.03		1733	0.792	0.0290	
				1735	0.1999	1.34		1735	0.738	0.0384	
				1737	1.7999	1.10		1739	0.400	0.0524	
				1739	0.3003	1.11		1744	0.196	0.0615	
				1745	0.3999	1.15		1748	0.082	0.0650	
				1748	1.0001	1.20		1752	0.030	0.0663	
				1759	0.0545	1.21		1755	0.009	0.0667	
				1805	2.3001	1.44		1758	0.006	0.0668	
				1807	8.1020	1.71		1801	0.006	0.0669	
				1808	2.3984	1.75		1805	0.118	0.0685	
				1830	0.0545	1.77		1808	0.328	0.0726	
								1810	0.686	0.0788	
								1813	1.230	0.0965	
								1816	0.998	0.1170	
								1818	0.820	0.1282	
								1822	0.458	0.1439	
								1826	0.236	0.1524	
								1832	0.090	0.1584	
								1837	0.025	0.1602	
								1842	0.006	0.1637	
								1847	0.0	0.1608	
								1852	0.0	0.1698	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.3686800.



EVENT OF JULY 11, 1976
COSHOCOTON, OHIO WATERSHED 135

COSHOCTON, OHIO WATERSHED 123

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 22 min. 23 sec. N.; Long. 81 deg. 47 min. 20 sec. W.

AREA: 1.37 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							COSHOCTON, OHIO WATERSHED 123								
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P	2.60	2.80	3.76	2.23	2.09	4.87	5.06	3.47	1.98	2.64	0.57	1.05	33.12	
	Q	1.083	1.273	0.545	0.0	0.0	0.0	0.230	0.0	0.0	0.0	0.0	0.0	3.131	
STA AV	P	2.71	2.44	3.50	3.50	3.77	4.13	4.29	3.03	2.70	2.28	2.61	2.47	37.42	
	Q	0.387	0.414	0.450	0.250	0.128	0.243	0.191	0.109	0.058	0.026	0.058	0.160	2.475	
ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		7-11	0.573	3- 4	0.200	2-18	0.281	2-18	0.493	2-10	0.553	2-17	0.666	2-16	0.666

NOTES: Watershed conditions: Meadow. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.10-6. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.10-1 and 26.30-3. Precipitation data from rain gage Y103. Precipitation and runoff records began Jan. 1939. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976 DAILY AIR TEMPERATURE (degrees F)														COSHOCTON, OHIO WATERSHED 123	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min		
1	32 29	34 2	62 40	42 35	59 50	67 59	70 58	71 56	71 58	69 49	45 31	33 15			
2	39 29	12 -2	66 54	40 34	68 47	68 54	76 55	72 54	69 54	70 55	49 30	29 1			
3	39 18	30 4	72 57	63 32	47 38	73 54	76 60	75 54	74 51	71 50	49 36	20 -5			
4	18 7	32 24	75 54	56 25	57 37	75 55	73 56	76 58	78 59	74 52	38 29	28 20			
5	17 4	24 20	67 30	57 34	75 47	73 54	78 58	76 61	66 55	76 52	38 30	31 15			
6	34 9	21 12	39 29	62 38	72 59	75 51	81 63	70 61	70 50	64 51	46 30	41 22			
7	36 20	24 7	41 28	59 39	59 40	83 58	75 62	62 56	78 52	54 49	41 31	37 15			
8	20 -1	31 22	37 21	43 29	55 37	84 60	76 62	65 56	83 56	53 47	31 23	23 15			
9	6 -5	36 16	38 30	47 27	67 35	86 66	78 57	70 56	82 59	49 42	49 23	32 15			
10	19 0	54 36	49 28	60 29	72 51	85 63	81 60	79 57	63 51	55 40	45 34	47 29			
11	33 19	54 29	44 29	51 32	67 42	85 63	88 69	80 60	75 45	59 47	36 31	40 23			
12	25 21	50 24	59 32	48 24	62 36	86 67	72 60	81 67	79 54	67 42	35 25	38 27			
13	45 23	52 30	52 28	60 31	76 44	86 64	74 56	78 67	82 57	73 50	40 22	29 15			
14	32 21	40 23	45 25	70 40	74 65	85 65	83 56	76 60	78 61	60 41	39 23	43 15			
15	29 16	60 32	46 33	77 54	74 65	83 69	87 66	69 61	70 60	71 46	42 28	46 32			
16	32 16	59 47	35 22	79 60	67 57	77 61	77 61	72 55	65 59	54 39	45 22	41 29			
17	16 5	61 42	25 17	80 59	65 47	75 59	71 58	76 51	66 62	47 35	52 22	35 29			
18	16 1	56 40	51 23	82 61	51 42	84 59	77 54	79 60	74 59	50 33	45 33	40 26			
19	33 5	48 34	59 47	80 59	59 37	74 60	79 58	81 61	76 55	57 35	52 31	57 30			
20	32 18	53 33	73 52	81 57	77 49	65 56	81 62	79 62	68 60	47 39	44 22	51 21			
21	23 15	58 39	55 32	72 56	70 53	68 59	78 68	82 60	61 45	44 34	38 23	20 12			
22	21 11	52 25	41 22	66 53	65 47	76 60	78 68	84 65	61 37	43 29	30 22	25 10			
23	35 9	34 22	55 28	65 50	63 41	79 62	83 70	86 65	75 47	46 24	29 18	29 9			
24	42 23	61 30	66 42	80 48	65 43	69 64	79 62	85 65	62 45	52 39	30 20	24 4			
25	48 21	63 45	61 47	63 39	59 45	75 64	75 58	85 70	67 45	52 40	51 23	32 24			
26	50 30	60 46	72 43	39 35	63 43	80 61	80 59	73 68	65 53	40 33	56 47	32 20			
27	30 20	62 36	63 43	42 34	70 48	84 63	81 64	80 69	65 54	38 29	60 37	24 8			
28	27 17	54 44	55 40	51 35	71 53	81 65	83 64	80 68	57 47	41 23	39 19	29 18			
29	33 23	69 44	59 43	60 39	72 59	83 65	79 70	70 53	65 40	51 27	21 3	28 0			
30	30 21		77 54	64 39	76 56	73 62	78 67	69 48	62 51	47 34	19 1	18 2			
31	28 19		59 40		75 63		77 58	75 49		48 35		12 -6			
AV.	30 15	46 28	55 36	61 41	66 48	78 61	78 61	76 60	70 53	56 40	41 26	33 16			
MEAN	22.4	37.1	45.4	51.1	57.0	69.4	69.8	68.0	61.5	47.8	33.4	24.3			
STA AV	36 21	38 22	51 33	59 40	69 50	76 59	80 62	79 62	71 54	61 43	49 33	38 24			

NOTES: Temperature data based on records at North Appalachian Experimental Watershed. STA AV values are based on 38 yr (1939-76) record period.

1976 DAILY PRECIPITATION (inches) COSHOCTON, OHIO WATERSHED 123												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.01S	0.0	0.20M	0.06	0.71	0.0 T	0.01	0.0 T	0.0	0.0	0.0
2	0.14	0.0 T	0.15	0.06M	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.16	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
4	0.0	0.0	0.69	0.05M	0.0	0.0	0.0	0.0	0.10	0.0	0.0 T	0.0
5	0.0	0.52M	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
6	0.0	0.02S	0.0	0.0	0.24	0.0	0.0	0.48	0.0	0.08	0.0	0.43
7	0.56S	0.0	0.0	0.0	0.05	0.0	0.13	0.92	0.0	0.0 T	0.0 T	0.15
8	0.07S	0.05S	0.0	0.0	0.0	0.0	1.29	0.0	0.0	0.0	0.0	0.0 T
9	0.0	0.0	0.02S	0.0	0.0	0.0	0.0	0.0	0.53	0.50	0.0 T	0.0
10	0.0	0.0	0.31	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.03	0.0
11	0.12M	0.0	0.0	0.03	0.03	0.42	1.61	0.0	0.0	0.0	0.0	0.0 T
12	0.0	0.0 T	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
13	0.45	0.0	0.02S	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0
15	0.0	0.02	0.0	0.0	0.04	0.0	0.45	0.56	0.0	0.0 T	0.0	0.0
16	0.10S	0.23	0.15S	0.0	0.62	0.35	0.46	0.0	0.29	0.0	0.0	0.0 T
17	0.0	0.23	0.0	0.0	0.20	0.0	0.0	0.0	0.21	0.0	0.0	0.0
18	0.0	1.15	0.0 T	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0 T	0.0	0.0 T	0.0	0.0	0.99	0.0	0.0	0.0	0.0	0.0	0.0
20	0.11S	0.0	0.33	0.0	0.0	0.10	0.0	0.0	0.29	0.56	0.0	0.18M
21	0.06S	0.37	0.71	0.95	0.0	0.0	0.06	0.0	0.0	0.0 T	0.05S	0.02S
22	0.01S	0.08M	0.0	0.24	0.0	0.01	0.0 T	0.0	0.0	0.0	0.0 T	0.0
23	0.0	0.02S	0.0	0.0	0.0	0.03	0.27	0.0	0.0	0.20	0.0	0.0 T
24	0.0	0.0	0.0	0.0	0.0	1.42	0.03	0.0	0.0	0.63	0.04M	0.0
25	0.44	0.0	0.07	0.70	0.0 T	0.31	0.0	0.40	0.0	0.0 T	0.0	0.11SZ
26	0.31M	0.0	0.0 T	0.0	0.0	0.0	0.0	0.15	0.36	0.0	0.12	0.11SZ
27	0.0	0.0 T	0.20	0.0 T	0.0	0.0	0.04	0.0	0.16	0.0 T	0.06	0.01SZ
28	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.10	0.0	0.0	0.18S	0.01SZ
29	0.01S	0.0	0.0 T	0.0	0.0	0.09	0.14	0.0	0.0	0.0	0.09S	0.02SZ
30	0.06S	0.0	0.0 T	0.0	0.0	0.44	0.0 T	0.0	0.04	0.35	0.0	0.01SZ
31	0.0	0.55	0.0	0.60	0.0	0.0	0.11	0.0	0.0	0.32	0.0	0.0
TOTAL	2.60	2.80	3.76	2.23	2.09	4.87	5.06	3.47	1.98	2.64	0.57	1.05
STA AV	2.71	2.44	3.50	3.50	3.77	4.13	4.29	3.03	2.70	2.28	2.61	2.47

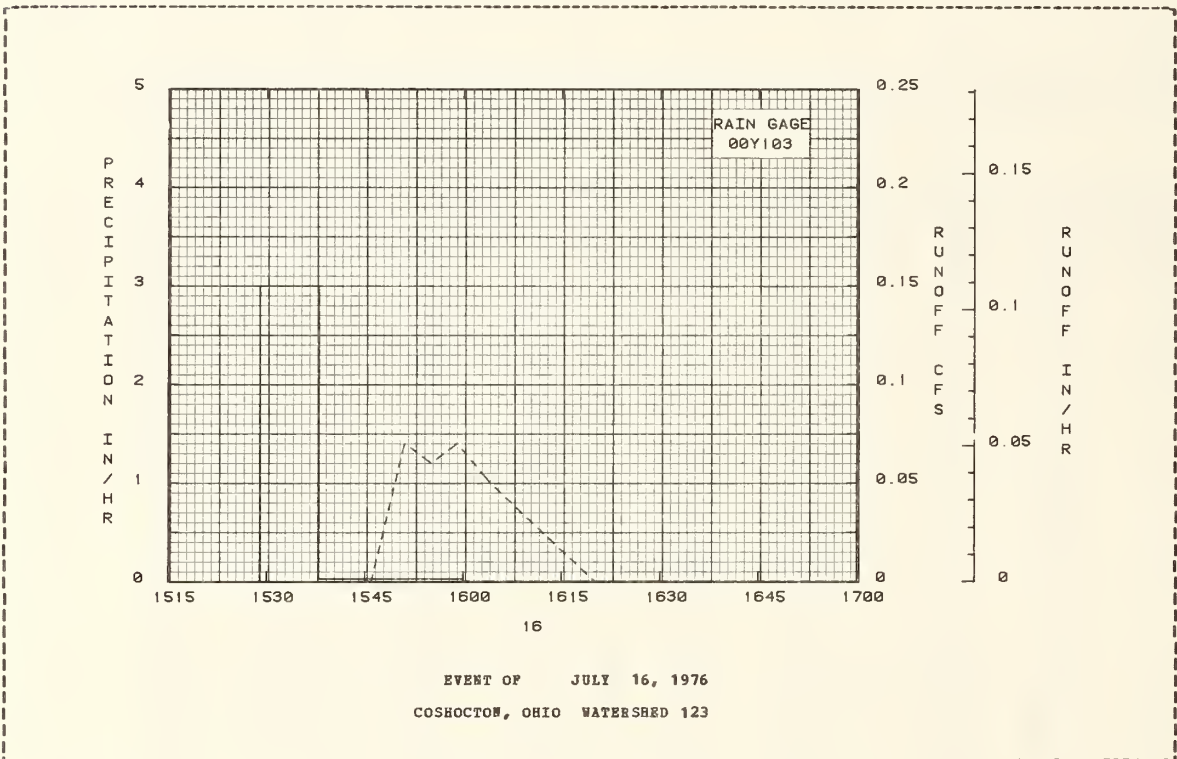
NOTES: Precipitation amounts are for rain gage Y103. STA AV values are based on 38 yr (1939-76) record period. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 123												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.029	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.003	0.0	0.0	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.038	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0 T	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0020	0.0025	0.0010	0.0	0.0	0.0	0.0004	0.0	0.0	0.0	0.0	0.0
INCHES	1.083	1.273	0.545	0.0	0.0	0.0	0.230	0.0	0.0	0.0	0.0	0.0
STA AV	0.387	0.414	0.450	0.250	0.128	0.243	0.191	0.109	0.058	0.026	0.058	0.160

NOTES: To convert CFS to IN/DAY, multiply by 17.3735. STA AV values are based on 38 yr (1939-76) record period.

1976 SELECTED RUNOFF EVENT			COSHOCTON, OHIO WATERSHED 123							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JULY 16, 1976										
7-16	RG 00Y103 0.0	0.0	7-16	1529	0.0	0.0	7-16	1539	0.0	0.0
				1533	3.0002	0.20		1546	0.002	0.0001
				1537	3.0000	0.40		1551	0.074	0.0024
				1538	3.0002	0.45		1555	0.060	0.0056
				1600	0.0273	0.46		1559	0.074	0.0088
WATERSHED CONDITIONS: Field of alfalfa and orchardgrass.								1604	0.046	0.0124
								1620	0.002	0.0171
								1715	0.0	0.0177

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.72389000.



COSHOCTON, OHIO WATERSHED 109

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 22 min. 11 sec. N.; Long. 81 deg. 47 min. 39 sec. W.

AREA: 1.69 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								COSHOCTON, OHIO WATERSHED 109									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	2.23	2.75	3.76	2.28	2.08	4.86	4.97	3.49	1.86	2.57	0.49	1.11	32.45			
	Q	0.732	0.368	0.004	0.0	0.0	0.0	0.207	0.0	0.0	0.0	0.0	0.0	1.331			
STA AV	P	2.60	2.29	3.42	3.43	3.76	4.10	4.30	2.96	2.71	2.22	2.53	2.36	36.68			
	Q	0.079	0.177	0.107	0.045	0.084	0.247	0.267	0.142	0.043	0.010	0.091	0.017	1.218			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		7-11	0.577	7-11	0.187	7-11	0.195	2-10	0.339	2-10	0.375	1-24	0.429	1-24	0.646	1-18	0.721
MAXIMUMS FOR PERIOD OF RECORD																	
		5-17	4.340	6-29	0.820	6-28	1.090	7-5	1.416	3-4	1.920	3-4	2.170	3-3	2.550	3-1	2.560
		1941		1941		1940		1969		1963		1963		1963		1963	

NOTES: Watershed conditions: Meadow with a stand of orchardgrass and alfalfa. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.13-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.13-1 and 26.30-3. Precipitation data from rain gage Y102. Precipitation and runoff records began Nov. 1936. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976 DAILY PRECIPITATION (inches)													
COSHOCTON, OHIO WATERSHED 109													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.01S	0.0	0.20M	0.09	0.78	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0	0.0
2	0.15	0.0 T	0.10	0.10M	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.16	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
4	0.0	0.0	0.71	0.05M	0.0	0.0	0.0	0.0	0.07	0.0	0.0 T	0.0	0.0
5	0.0	0.54M	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
6	0.0	0.33S	0.0	0.0	0.24	0.0	0.0	0.46	0.0	0.38	0.0	0.42	
7	0.42S	0.0	0.0	0.0	0.06	0.0	0.11	0.81	0.0	0.0 T	0.0 T	0.16	
8	0.03S	0.37S	0.0	0.0	0.0	0.0	1.29	0.0	0.0	0.0	0.0	0.0 T	0.0
9	0.0	0.0	0.03S	0.0	0.0	0.0	0.0	0.48	0.48	0.49	0.0 T	0.0	0.0
10	0.0	0.0	0.28	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0 T	0.0	0.0
11	0.06M	0.0	0.0	0.02	0.04	0.30	1.72	0.0	0.0	0.0	0.0	0.0 T	0.0 T
12	0.0	0.0 T	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
13	0.47	0.0	0.03S	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0
15	0.0	0.33	0.0	0.0	0.05	0.0	0.35	0.58	0.0	0.0 T	0.0	0.0	0.0
16	0.08S	0.21	0.06S	0.0	0.57	0.35	0.51	0.0	0.23	0.0	0.0	0.0 T	0.0 T
17	0.0	0.21	0.0	0.0	0.17	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0
18	0.0	1.16E	0.0 T	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.01S	0.0	0.0 T	0.0	0.0	1.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.10S	0.0	0.37	0.0	0.0	0.11	0.0	0.0	0.30	0.55	0.0	0.23M	
21	0.03S	0.39	0.71	0.95	0.0	0.0	0.08	0.0	0.0	0.0 T	0.06S	0.02S	
22	0.01S	0.39M	0.0	0.25	0.0	0.01	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0
23	0.0	0.01S	0.0	0.0	0.0	0.03	0.29	0.0	0.0	0.20	0.0	0.0 T	0.0
24	0.0	0.0	0.0	0.0	0.0	1.35	0.01	0.0	0.0	0.58	0.05M	0.0	0.0
25	0.39	0.0	0.09	0.71	0.0 T	0.34	0.0	0.41	0.0	0.0 T	0.0	0.12SZ	
26	0.28M	0.0	0.0 T	0.0	0.0	0.0	0.0	0.16	0.35	0.0	0.12	0.11SZ	
27	0.0	0.0 T	0.24	0.0 T	0.0	0.0	0.03	0.0	0.16	0.0 T	0.11	0.01SZ	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.15	0.0	0.0	0.13S	0.01SZ	
29	0.01S	0.0	0.0 T	0.0	0.0	0.15	0.10	0.0	0.0	0.0	0.02S	0.02SZ	
30	0.04S	0.0	0.0 T	0.0	0.0	0.41	0.0 T	0.0	0.04	0.31	0.0	0.01SZ	
31	0.0		0.55		0.60		0.10	0.0		0.36		0.0	
TOTAL	2.23	2.75	3.76	2.28	2.08	4.86	4.97	3.49	1.86	2.57	0.49	1.11	
STA AV	2.60	2.29	3.42	3.43	3.76	4.10	4.30	2.96	2.71	2.22	2.53	2.36	

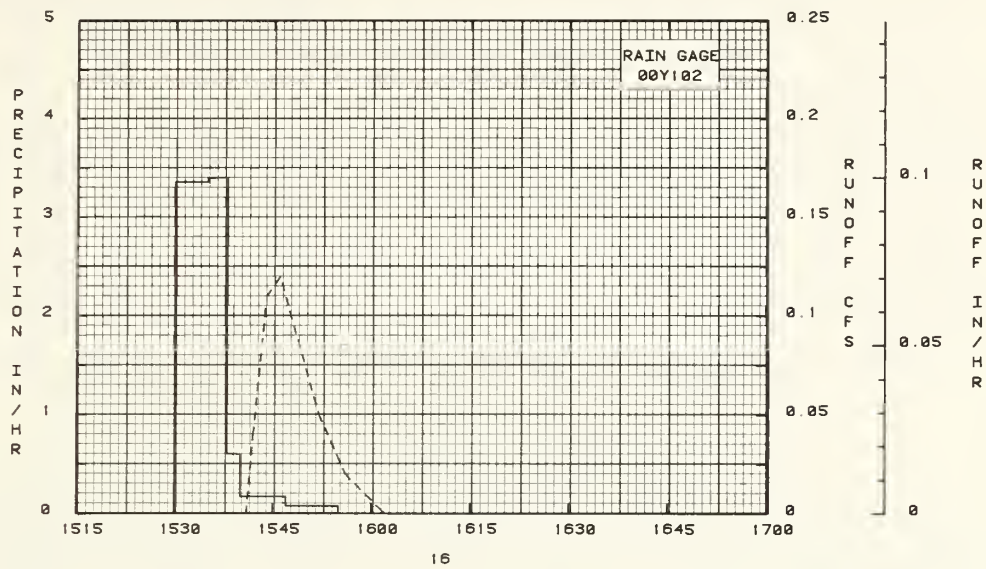
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage Y102. STA AV values are based on 39 yr (1938-76) record period, part-year records included. Codes 'B' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates that an accurately measured total for a series of days has been divided equally among coded days.

1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 109												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0017	0.0010	0.0	0.0	0.0	0.0	0.0095	0.0	0.0	0.0	0.0	0.0
INCHES	0.732	0.388	0.004	0.0	0.0	0.0	0.267	0.0	0.0	0.0	0.0	0.0
STA AV	0.079	0.177	0.107	0.045	0.084	0.247	0.267	0.142	0.043	0.010	0.001	0.017

NOTES: To convert CFS to IN/DAY, multiply by 14.0838. STA AV values are based on 39 yr (1936-76) record period, part-year records included.

1976 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 109									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(inches)
EVENT OF JULY 16, 1976									
RG 00Y102									
7-16 0.01 0.0 7-16 1530 0.0 0.0 7-16 1541 0.0 0.0									
1535 3.3602 0.26 1542 0.035 0.0002									
1538 3.4000 0.45 1544 0.113 0.0016									
1540 0.5997 0.47 1546 0.123 0.0039									
1547 0.1715 0.48 1552 0.047 0.0089									
WATERSHED CONDITIONS: 1555 0.0750 0.59 1556 0.023 0.0103									
Meadow with a stand of 1602 0.004 0.0111									
orchardgrass and alfalfa. 1608 0.362 0.0113									
1653 0.0 0.0115									

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.58683000.



EVENT OF JULY 16, 1976
COSHOCTON, OHIO WATERSHED 109

COSHOCTON, OHIO WATERSHED 110

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin. Lat. 40 deg. 21 min. 54 sec. N.; Long. 81 deg. 47 min. 42 sec. W.

AREA: 1.27 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 110													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1976	P	2.43	2.73	3.69	2.28	2.28	5.07	5.03	3.58	1.85	2.57	0.62	1.04	33.17													
	Q	0.574	0.545	0.060	0.005	0.002	0.007	0.110	0.003	0.0	0.0	0.0	0.0	1.307													
STA AV	P	2.60	2.22	3.30	3.31	3.59	3.91	4.13	2.88	2.68	2.14	2.46	2.32	35.55													
	Q	0.231	0.238	0.344	0.130	0.104	0.313	0.273	0.094	0.128	0.028	0.016	0.080	1.979													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge Date	1 Hour Date	2 Hours Date	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date																		
1976		3-21 0.092	2-18 0.083	2-18 0.125	1-25 0.261	1-25 0.433	1-25 0.563	1-24 0.568	1-18 0.568																		
MAXIMUMS FOR PERIOD OF RECORD																											
		7-28 4.440	9- 1 2.240	9- 1 3.160	9- 1 3.190	9- 1 3.190	9- 1 3.200	3- 3 4.120	3- 1 5.050																		
		1950	1950	1950	1950	1950	1950	1963	1963																		

NOTES: Watershed conditions: Pasture with cover of orchardgrass. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.14-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.15-1 and 26.30-3. Precipitation data from rain gage 107. Precipitation and runoff records began Apr. 1939. Runoff measurements discontinued March 1970 to March 1974. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976		DAILY PRECIPITATION (inches)					COSHOCTON, OHIO WATERSHED 110							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.02S	0.0	0.21M	0.09	0.83	0.0 I	0.0 T	0.0 T	0.0	0.0	0.0		
2	0.14	0.0 T	0.07	0.07M	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.16	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T		
4	0.0	0.0	0.62	0.05M	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0		
5	0.0	0.51M	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.3		
6	0.0	0.05S	0.0	0.0	0.24	0.0	0.0	0.46	0.0	0.06	0.0	0.43		
7	0.45S	0.0	0.0	0.0	0.06	0.0	0.08	0.81	0.0	0.0 T	0.0 T	0.15		
8	0.08S	0.03S	0.0	0.0	0.0	0.8	1.29	0.0	0.0	0.0	0.0	0.0 T		
9	0.0	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.56	0.50	0.0 T	0.0		
10	0.0	0.0	0.29	0.0	0.0	0.0	0.31	0.0	0.02	0.0	0.01	0.0		
11	0.12M	0.0	0.0	0.03	0.04	0.24	1.66	0.0	0.0	0.0	0.0	0.0 T		
12	0.0	0.0 T	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0		
13	0.49	0.0	0.02S	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0		
15	0.0	0.02	0.0	0.0	0.06	0.0	0.22	0.58	0.0	0.0 T	0.0	0.0		
16	0.07S	0.21	0.16S	0.0	0.61	0.34	0.49	0.0	0.23	0.0	0.0	0.0 T		
17	0.0	0.23	0.0	0.0	0.23	0.0	0.0	0.0	0.17	0.0	0.0	0.0		
18	0.0	1.18	0.0 T	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.01S	0.0	0.0 T	0.0	0.0	1.01	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.06S	0.0	0.34	0.0	0.0	0.11	0.0	0.0	0.31	0.56	0.0	0.16M		
21	0.04S	0.38	0.72	0.96	0.0	0.0	0.05	0.0	0.0	0.0 T	0.05S	0.01S		
22	0.01S	0.09M	0.0	0.22	0.0	0.01	0.01	0.0	0.0	0.0	0.0 T	0.0		
23	0.0	0.01S	0.0	0.0	0.0	0.04	0.29	0.0	0.0	0.20	0.0	0.0 T		
24	0.0	0.0	0.0	0.0	0.0	1.45	0.06	0.0	0.0	0.60	0.05M	0.0		
25	0.42	0.0	0.08	0.74	0.0 T	0.47	0.0	0.39	0.0	0.0 T	0.0	0.13SZ		
26	0.30M	0.0	0.01	0.0	0.0	0.0	0.0	0.17	0.35	0.0	0.17	0.12SZ		
27	0.0	0.0 T	0.21	0.0 T	0.0	0.0	0.02	0.0	0.15	0.0 T	0.06	0.01S		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.17	0.0	0.0	0.17S	0.0 T		
29	0.02S	0.0	0.0	0.0	0.0	0.15	0.09	0.0	0.0	0.0	0.11S	0.02S		
30	0.06S	0.02	0.0	0.0	0.0	0.42	0.01	0.0	0.02	0.35	0.0	0.01S		
31	0.0	0.53	0.0	0.65	0.0	0.12	0.0	0.0	0.30	0.0	0.0	0.0		
TOTAL	2.43	2.73	3.69	2.28	2.28	5.07	5.03	3.58	1.85	2.57	0.62	1.04		
STA AV	2.60	2.22	3.30	3.31	3.59	3.91	4.13	2.88	2.68	2.14	2.46	2.32		

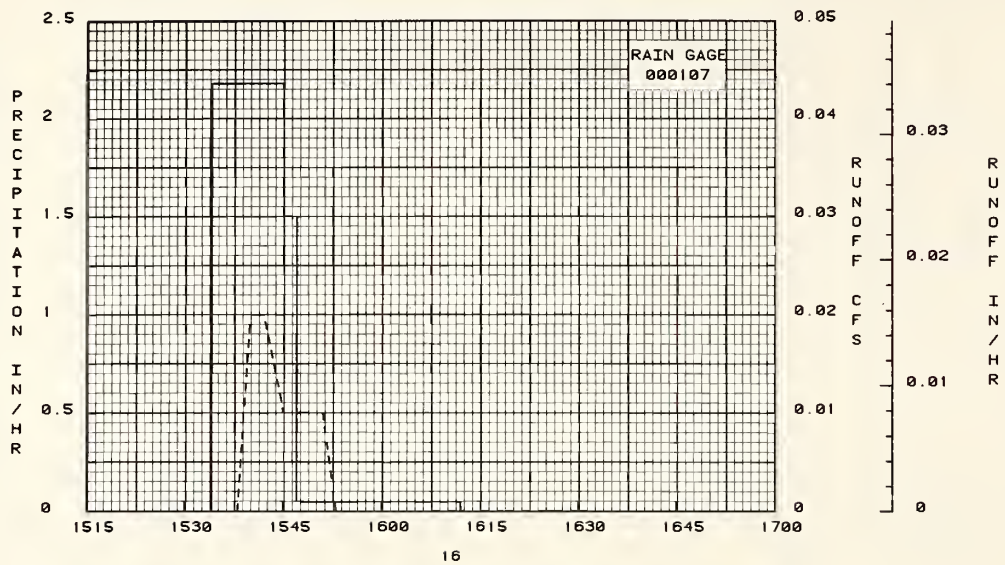
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 107. STA AV values are based on 38 yr (1939-76) record period, part-year records included. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 110												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.014	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.002	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
25	0.013	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
26	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0010	0.0010	0.0001	0.0	0.0	0.0	0.0002	0.0	0.0	0.0	0.0	0.0
INCHES	0.574	0.545	0.060	0.005	0.002	0.007	0.110	0.003	0.0	0.0	0.0	0.0
STA AV	0.231	0.238	0.344	0.130	0.104	0.313	0.273	0.094	0.126	0.028	0.016	0.080

NOTES: To convert CFS to IN/DAY, multiply by 18.7415. STA AV values are based on 34 yr (1939-March 1970, March 1974-76) record period, part-year records included.

1976 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 110									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)
EVENT OF JULY 16, 1976									
RG 000107			EG 000107						
7-16	0.02	0.0	7-16	1534	0.0	0.0	7-16	1538	0.0
				1545	2.1818	0.40		1539	0.012
				1547	1.5001	0.45		1540	0.020
				1612	0.0480	0.47		1542	0.025
								1545	0.012
WATERSHED CONDITIONS:									
Pasture with cover of									
orchardgrass.									
								1549	0.009
								1551	0.006
								1553	0.004
								1600	0.002
								1651	0.0

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.75090000.



EVENT OF JULY 16, 1976
COSHOCOTON, OHIO WATERSHED 110

COSHOCTON, OHIO WATERSHED 121

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin. Lat. 40 deg. 21 min. 39 sec. N.; long. 81 deg. 48 min. 02 sec. W.

AREA: 1.42 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								COSHOCTON, OHIO WATERSHED 121											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	2.26	2.64	3.56	2.17	2.04	4.82	5.16	3.71	1.87	2.54	0.50	1.00	32.27					
	Q	1.247	0.581	0.071	0.0	0.0	0.0	0.055	0.000	0.0	0.0	0.0	0.250	2.304					
STA AV	P	2.58	2.15	3.20	3.23	3.63	3.94	4.24	2.90	2.72	2.15	2.42	2.27	35.43					
	Q	0.249	0.241	0.322	0.166	0.060	0.199	0.202	0.110	0.071	0.017	0.011	0.049	1.697					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		7-11	0.349	2-10	0.177	2-10	0.313	1-13	0.547	1-13	0.503	1-13	0.620	1-12	0.620	1-18	0.622		
MAXIMUMS FOR PERIOD OF RECORD																			
		8-23	7.820	9- 1	1.320	9- 1	1.390	9- 1	1.390	9- 1	1.390	9- 1	1.390	3- 3	1.660	3- 1	1.870		
		1944		1950		1950		1950		1950		1950		1963		1963			

NOTES: Watershed conditions: Meadow and pasture. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pnb. 945, p. 26.20-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pnb. 1070, pp. 26.19-1 and 26.30-3. Precipitation data from rain gage 113. Precipitation and runoff records began Apr. 1939. Runoff measurements discontinued March 1970 to April 6, 1972 and Nov. 1972 to April 1974. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976		DAILY PRECIPITATION (inches)						COSHOCTON, OHIO WATERSHED 121							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.01S	0.0	0.19M	0.07	0.79	0.0 T	0.01	0.0 T	0.0	0.0	0.0			
2	0.16	0.0 T	0.07	0.06M	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.13	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T			
4	0.0	0.0	0.59	0.05M	0.0	0.0	0.0	0.0	0.02	0.0	0.0 T	0.0			
5	0.0	0.50M	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0			
6	0.0	0.32S	0.0	0.0	0.22	0.0	0.0	0.47	0.0	0.09	0.0	0.45			
7	0.36S	0.0	0.0	0.0	0.04	0.0	0.16	0.79	0.0	0.0 T	0.0 T	0.15			
8	0.06S	0.01S	0.0	0.0	0.0	0.0	1.33	0.0	0.0	0.0	0.0	0.0 T			
9	0.0	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.55	0.49	0.0 T	0.0			
10	0.0	0.0	0.32	0.0	0.0	0.0	0.31	0.0	0.04	0.0	0.01	0.0			
11	0.10M	0.0	0.0	0.02	0.04	0.30	1.96	0.0	0.0	0.0	0.0	0.0 T			
12	0.0	0.0 T	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0			
13	0.51	0.0	0.02S	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0			
15	0.0	0.3	0.0	0.0	0.06	0.0	0.07	0.62	0.0	0.0 T	0.0	0.0			
16	0.07S	0.19	0.06S	0.0	0.59	0.35	0.43	0.0	0.24	0.0	0.0	0.0 T			
17	0.0	0.24	0.0	0.0	0.18	0.0	0.0	0.0	0.18	0.0	0.0	0.0			
18	0.0	1.15	0.0 T	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.01S	0.0	0.0 T	0.0	0.0	0.97	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.08S	0.0	0.35	0.0	0.0	0.05	0.0	0.0	0.29	0.55	0.0	0.19M			
21	0.02S	0.38	0.70	0.95	0.0	0.0	0.08	0.0	0.0	0.0 T	0.06S	0.01S			
22	0.01S	0.10M	0.0	0.22	0.0	0.03	0.01	0.0	0.0	0.0	0.0 T	0.0			
23	0.0	0.01S	0.0	0.0	0.0	0.01	0.37	0.0	0.0	0.21	0.0	0.0 T			
24	0.0	0.0	0.0	0.0	0.0	1.35	0.01	0.0	0.0	0.55	0.05M	0.0			
25	0.39	0.0	0.07	0.68	0.0 T	0.41	0.0	0.35	0.0	0.0 T	0.0	0.07SZ			
26	0.30M	0.0	0.0 T	0.0	0.0	0.0	0.0	0.17	0.34	0.0	0.09	0.08SZ			
27	0.0	0.0 T	0.20	0.0 T	0.0	0.0	0.03	0.0	0.16	0.0 T	0.07	0.01SZ			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.19	0.0	0.0	0.15S	0.01SZ			
29	0.01S	0.0	0.0 T	0.0	0.0	0.21	0.10	0.0	0.0	0.0	0.07S	0.02SZ			
30	0.05S	0.0 T	0.0	0.0	0.0	0.35	0.01	0.0	0.05	0.32	0.0	0.01SZ			
31	0.0		0.57		0.61		0.10	0.0		0.33		0.0			
TOTAL	2.26	2.64	3.56	2.17	2.04	4.82	5.16	3.71	1.87	2.54	0.50	1.00			
STA AV	2.58	2.15	3.20	3.23	3.63	3.94	4.24	2.90	2.72	2.15	2.42	2.27			

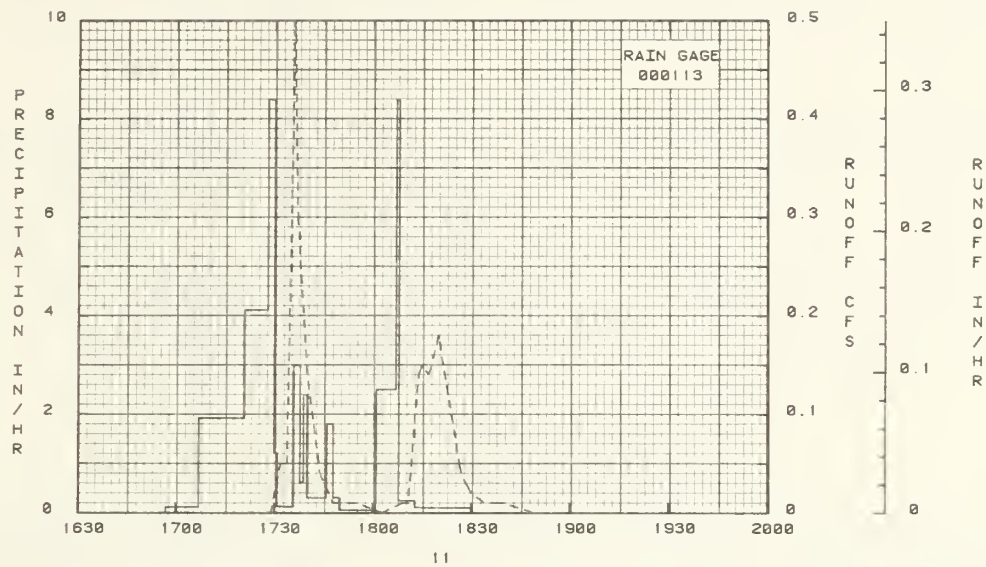
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 113. STA AV values are based on 38 yr record period, part-year records included. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days. Code 'E' may reflect estimated storm duration rather than estimated rainfall amounts.

1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 121												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.001	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0
14	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.001	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0
17	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.001	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0
26	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0024	0.0014	0.0001	0.0	0.0	0.0	0.0001	0.0	0.0	0.0	0.0	0.0005
INCHES	1.247	0.681	0.071	0.0	0.0	0.0	0.055	0.000	0.0	0.0	0.0	0.250
STA AV	0.248	0.241	0.322	0.166	0.060	0.199	0.202	0.110	0.071	0.017	0.011	0.049

NOTES: To convert CFS to IN/DAY, multiply by 16.7617. STA AV values are based on 36 yr (1939-March 1970, April 1972-Nov. 1972, April 1974-76) record period, part-year records included.

1976 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 121											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 11, 1976											
RG 000113			RG 000113								
7-11	0.0	0.0	7-11	1657	0.0	0.0	7-11	1713	0.0	0.0	
				1707	0.1200	0.02		1723	0.0	0.0	
				1721	1.9286	0.47		1729	0.004	0.0001	
				1728	4.1144	0.95		1732	0.046	0.0010	
				1730	8.3982	1.23		1733	0.053	0.0016	
WATERSHED CONDITIONS: Growth of fescue (pasture and meadow).				1731	1.2003	1.25		1734	0.046	0.0022	
				1736	0.1201	1.26		1736	0.500	0.0085	
				1738	2.9997	1.36		1737	0.296	0.0132	
				1739	0.6006	1.37		1740	0.138	0.0207	
				1740	2.3996	1.41		1744	0.035	0.0248	
				1746	0.3000	1.44		1748	0.012	0.0259	
				1748	1.7999	1.50		1750	0.012	0.0261	
				1750	0.3003	1.51		1755	0.006	0.0267	
				1801	0.0545	1.52		1803	0.004	0.0271	
				1807	2.5000	1.77		1809	0.006	0.0275	
				1808	8.3943	1.91		1811	0.009	0.0276	
				1813	0.2401	1.93		1813	0.099	0.0289	
				1830	0.1059	1.96		1814	0.138	0.0303	
								1815	0.149	0.0320	
								1817	0.138	0.0353	
								1818	0.149	0.0370	
								1820	0.184	0.0408	
								1827	0.041	0.0500	
								1830	0.025	0.0512	
								1834	0.012	0.0520	
								1840	0.006	0.0527	
								1849	0.004	0.0532	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.69841000.



EVENT OF JULY 11, 1976
COSHOCTON, OHIO WATERSHED 121

COSHOCTON, OHIO WATERSHED 106

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tnsicarawas River, Mnskingum River Basin. Lat. 40 deg. 21 min. 43 sec. N.; Long. 81 deg. 47 min. 56 sec. W.

AREA: 1.56 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 106									
		Jan	Feb	Mar	Apr	May	Jnn	Jul	Aug	Sep	Oct	Nov	Dec	Annal									
1976	P	2.26	2.64	3.56	2.17	2.04	4.82	5.16	3.71	1.87	2.54	0.50	1.40	32.27									
	Q	0.673	0.215	0.219	0.0	0.0	0.010	0.400	0.001	0.0	0.0	0.0	0.0	1.517									
STA AV	P	2.59	2.15	3.21	3.25	3.63	3.95	4.25	2.91	2.72	2.16	2.43	2.28	35.53									
	Q	0.233	0.262	0.112	0.123	0.105	0.260	0.278	0.176	0.137	0.016	0.032	0.073	1.808									
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days									
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.								
1976		7-11	2.047	7-11	0.387	7-11	0.399	7-11	0.395	7-11	0.399	1-25	0.647	1-25	0.663								
MAXIMUMS FOR PERIOD OF RECORD																							
		8-23	7.630	9-1	1.260	9-1	1.380	9-1	1.350	2-23	1.410	2-23	1.410	2-23	2.000								
		1964		1950		1950		1950		1960		1962		1962									

NOTES: Watershed conditions: Meadow and pasture. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.20-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.20-1 and 26.30-3. Precipitation data from rain gage 113. Precipitation and runoff records began Apr. 1939. Runoff measurements discontinued Nov. 1972 to April 1974. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

COSHOCTON, OHIO WATERSHED 106													
DAILY PRECIPITATION (inches)													
1976	Day	Jan	Feb	Mar	Apr	May	Jnn	Jul	Aug	Sep	Oct	Nov	Dec
	1	0.0	0.01S	0.0	0.19M	0.07	0.79	0.0 T	0.01	0.0 T	0.0	0.0	0.0
	2	0.16	0.0 T	0.07	0.06M	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3	0.13	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
	4	0.0	0.0	0.59	0.05M	0.0	0.0	0.0	0.0	0.02	0.0	0.0 T	0.0
	5	0.0	0.50M	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
	6	0.0	0.02S	0.0	0.0	0.22	0.0	0.0	0.47	0.0	0.09	0.0	0.45
	7	0.36S	0.0	0.0	0.0	0.04	0.0	0.16	0.79	0.0	0.0 T	0.0 T	0.15
	8	0.06S	0.01S	0.0	0.0	0.0	0.0	1.33	0.0	0.0	0.0	0.0	0.0 T
	9	0.0	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.55	0.49	0.0 T	0.0
	10	0.0	0.0	0.32	0.0	0.0	0.0	0.31	0.0	0.04	0.0	0.01	0.0
	11	0.10M	0.0	0.0	0.02	0.04	0.30	1.96	0.0	0.0	0.0	0.0	0.0 T
	12	0.0	0.0 T	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
	13	0.51	0.0	0.02S	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0
	15	0.0	0.03	0.0	0.0	0.06	0.0	0.07	0.62	0.0	0.0 T	0.0	0.0
	16	0.07S	0.19	0.06S	0.0	0.59	0.35	0.43	0.0	0.24	0.0	0.0	0.0 T
	17	0.0	0.24	0.0	0.0	0.18	0.0	0.0	0.0	0.18	0.0	0.0	0.0
	18	0.0	1.15	0.0 T	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.01S	0.0	0.0 T	0.0	0.0	0.97	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.08S	0.0	0.35	0.0	0.0	0.05	0.0	0.0	0.29	0.55	0.0	0.19M
	21	0.02S	0.38	0.70	0.95	0.0	0.0	0.08	0.0	0.0	0.0 T	0.06S	0.01S
	22	0.01S	0.10M	0.0	0.22	0.0	0.03	0.01	0.0	0.0	0.0	0.0 T	0.0
	23	0.0	0.01S	0.0	0.0	0.0	0.01	0.37	0.0	0.0	0.21	0.0	0.0 T
	24	0.0	0.0	0.0	0.0	0.0	1.35	0.01	0.0	0.0	0.55	0.05M	0.0
	25	0.39	0.0	0.07	0.68	0.0 T	0.41	0.0	0.35	0.0	0.0 T	0.0	0.07SZ
	26	0.30M	0.0	0.0 T	0.0	0.0	0.0	0.0	0.17	0.34	0.0	0.09	0.08SZ
	27	0.0	0.0 T	0.20	0.0 T	0.0	0.0	0.03	0.0	0.16	0.0 T	0.07	0.01SZ
	28	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.19	0.0	0.0	0.15S	0.01SZ
	29	0.01S	0.0	0.0 T	0.0	0.0	0.21	0.10	0.0	0.0	0.0	0.07S	0.02SZ
	30	0.05S	0.0	0.0 T	0.0	0.0	0.35	0.01	0.0	0.05	0.32	0.0	0.01SZ
	31	0.0	0.0	0.57	0.61	0.61	0.61	0.10	0.0	0.0	0.33	0.0	0.0
TOTAL		2.26	2.64	3.56	2.17	2.04	4.82	5.16	3.71	1.87	2.54	0.50	1.00
STA AV		2.59	2.15	3.21	3.25	3.63	3.95	4.25	2.91	2.72	2.16	2.43	2.28

NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 113. STA AV values are based on 38 yr (1939-76) record period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amount. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 106												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0
10	0.0	0.012	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.026	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0
17	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.002	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.008	0.0	0.0	0.0	0.0	0.001	0.0	0.0	T	0.0	0.0	0.0
26	0.036	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0014	0.0005	0.0005	0.0	0.0	0.0	0.0008	0.0	0.0	0.0	0.0	0.0
INCRES	0.673	0.215	0.219	0.0	0.0	0.010	0.400	0.001	0.0	0.0	0.0	0.0
STA AV	0.233	0.262	0.112	0.123	0.105	0.260	0.278	0.176	0.137	0.016	0.032	0.073

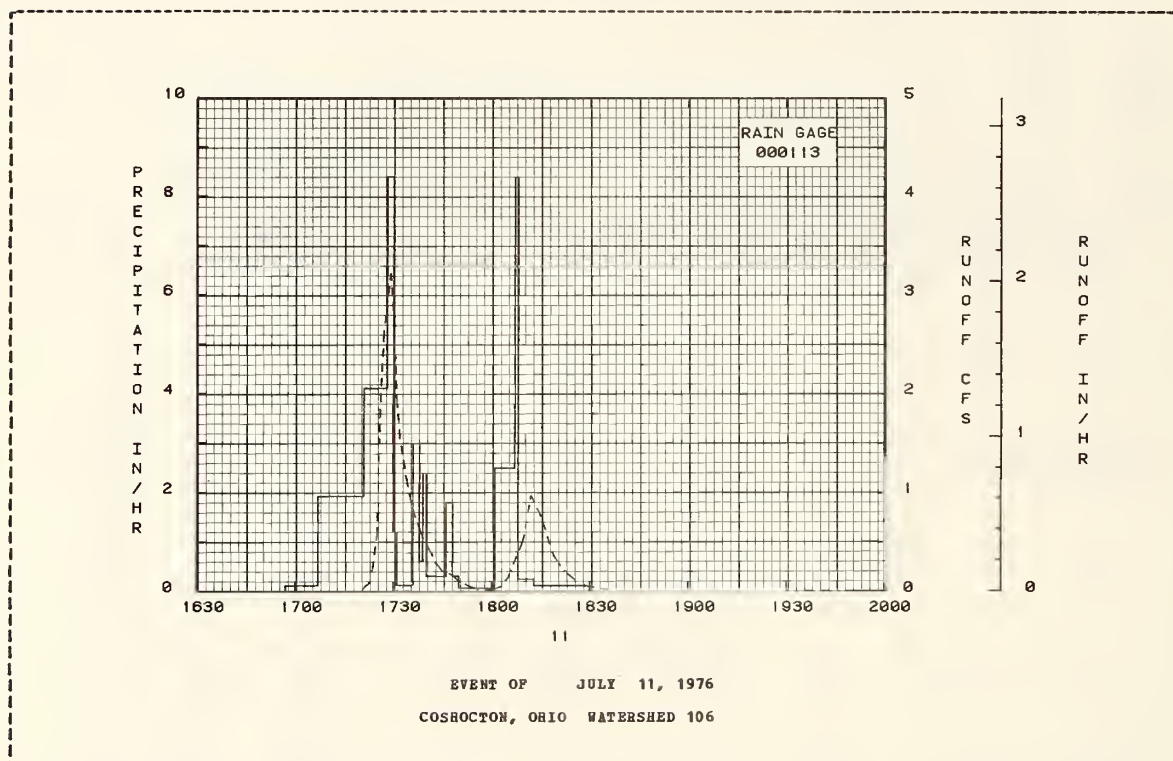
NOTES: To convert CFS to IN/DAY, multiply by 15.2575. STA AV values are based on 37 yr (1939-Nov. 1972, April 1974-76) record period, part-year records included.

1976 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 106										
ANTECEDENT CONDITIONS			RAINFALL							
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Runoff	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 11, 1976										
7-11	RG 000113 0.0	0.0	7-11	RG 000113			7-11			
				1657	0.0	0.0		1704	0.0	0.0
				1707	0.1200	0.02		1705	0.0	0.0
				1721	1.9286	0.47		1710	0.002	0.0001
				1728	4.1144	0.95		1719	0.002	0.0002
				1730	8.3982	1.23		1720	0.004	0.0003
WATERSHED CONDITIONS: Pescue cover (pasture and meadow).				1731	1.2033	1.25		1723	0.099	0.0019
				1736	0.1201	1.26		1724	0.256	0.0040
				1738	2.9997	1.36		1725	0.566	0.0086
				1739	0.6036	1.37		1726	1.930	0.0216
				1740	2.3996	1.41		1727	2.640	0.0460
				1746	0.3000	1.44		1729	3.220	0.1081
				1748	1.7999	1.50		1730	2.800	0.1400
				1750	0.3003	1.51		1731	1.930	0.1650
				1801	0.0545	1.52		1732	1.540	0.1834
				1807	2.5000	1.77		1734	1.130	0.2117
				1808	8.3943	1.91		1736	0.820	0.2324
				1813	0.2401	1.93		1739	0.543	0.2540
				1830	0.1059	1.96		1741	0.419	0.2642
								1743	0.280	0.2716
								1745	0.196	0.2767
								1748	0.160	0.2823
								1750	0.099	0.2851
								1753	0.053	0.2875
								1756	0.025	0.2887
								1800	0.009	0.2894
								1803	0.046	0.2903
								1805	0.138	0.2923
								1809	0.458	0.3049
								1810	0.566	0.3103
								1812	0.967	0.3266

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.63573000.

1976 SELECTED RUNOFF EVENT			COSHOCTON, OHIO WATERSHED 106							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 11, 1976 (CONTINUED)										
							7-11	1815	0.764	0.3541
								1819	0.363	0.3779
								1821	0.265	0.3846
								1823	0.184	0.3894
								1826	0.099	0.3939
								1829	0.046	0.3962
								1838	0.002	0.3984
								1900	0.0	0.3987

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.63573000.



COSHOCTON, OHIO WATERSHED 196

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 21 min. 38 sec. N.; Long. 81 deg. 47 min. 07 sec. W.

AREA: 303.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 196											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1976	P	2.95	2.75	3.56	2.33	2.04	4.79	5.14	3.81	2.08	2.57	0.54	1.07	33.63											
	Q	2.744	3.044	2.079	1.069	0.347	0.327	1.125	0.317	0.123	0.205	0.136	0.157	11.673											
STA AV	P	2.69	2.40	3.53	3.40	3.75	4.15	4.25	2.92	2.74	2.26	2.54	2.42	37.04											
	Q	1.802	1.977	2.846	2.336	1.448	0.951	0.669	0.277	0.276	0.226	0.482	1.044	14.334											
ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days									
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.								
1976		7-11	0.534	7-11	0.385	7-11	0.515	7-11	0.591	7-11	0.622	2-18	0.817	2-17	1.054	2-16	1.852								
MAXIMUMS FOR PERIOD OF RECORD																									
		6-12	3.720	6-12	1.310	6-12	1.440	7-5	2.106	7-5	2.453	1-21	2.920	1-20	3.210	3-4	4.630								
		1957		1957		1957		1969		1969		1959		1959		1964									

NOTES: Watershed conditions (approximate percentages): Woods, 27%; grassland, 50%; miscellaneous, 4%; cultivated 19%; watershed in improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.30-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.30-1 and 26.30-3. Precipitation data from rain gage 108. Precipitation and runoff records began May 1937. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976		DAILY PRECIPITATION (inches)					COSHOCTON, OHIO							WATERSEED 196	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.01S	0.0	0.22M	0.06	0.72	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0			
2	0.15	0.0 T	0.05	0.07M	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.17	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T			
4	0.0	0.0	0.59	0.05M	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0			
5	0.0	0.59M	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0			
6	0.0	0.03S	0.0	0.0	0.23	0.0	0.0	0.48	0.0	0.10	0.0	0.45			
7	0.60S	0.0	0.0	0.0	0.05	0.0	0.12	0.85	0.0	0.0 T	0.0 T	0.15			
8	0.09S	0.01S	0.0	0.0	0.0	0.0	1.30	0.0	0.0	0.0	0.0	0.0 T			
9	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.62	0.45	0.0 T	0.0			
10	0.0	0.0	0.32	0.0	0.0	0.0	0.35	0.0	0.0 T	0.0	0.02	0.0			
11	0.18M	0.0	0.0	0.04	0.05	0.42	1.73	0.0	0.0	0.0	0.0	0.0 T			
12	0.0	0.0 T	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0			
13	0.52	0.0	0.03S	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0			
15	0.0	0.01E	0.0	0.0	0.07	0.0	0.30	0.68	0.0	0.0 T	0.0	0.0			
16	0.14S	0.23	0.10S	0.0	0.56	0.36	0.53	0.0	0.30	0.0	0.0	0.0 T			
17	0.0	0.24	0.0	0.0	0.21	0.0	0.0	0.0	0.2M	0.0	0.0	0.0			
18	0.0	1.14	0.0 T	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.01S	0.0	0.0 T	0.0	0.0	0.78	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.15S	0.0	0.34	0.0	0.0	0.10	0.0	0.0	0.29	0.55	0.0	0.16M			
21	0.08S	0.38	0.70	1.00	0.0	0.0	0.05	0.0	0.0	0.0 T	0.04S	0.01S			
22	0.01S	0.10M	0.0	0.20	0.0	0.03	0.01	0.0	0.0	0.0	0.0 T	0.0			
23	0.0	0.01S	0.0	0.0	0.0	0.02	0.30	0.0	0.0	0.21	0.0	0.0 T			
24	0.0	0.0	0.0	0.0	0.0	1.40	0.06	0.0	0.0	0.61	0.05M	0.0			
25	0.42	0.0	0.08	0.75	0.0 T	0.42	0.0	0.45	0.0	0.0 T	0.0	0.13SZ			
26	0.32M	0.0	0.0 T	0.0	0.0	0.0	0.0	0.15	0.35	0.0	0.12	0.12SZ			
27	0.0	0.0 T	0.21	0.0 T	0.0	0.0	0.03	0.0	0.15	0.0 T	0.08	0.01SZ			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.17	0.0	0.0	0.16S	0.01SZ			
29	0.02S	0.0	0.0	0.0	0.0	0.16	0.09	0.0	0.0	0.0	0.07S	0.02SZ			
30	0.09S		0.01	0.0	0.0	0.38	0.0 T	0.0	0.05	0.34	0.0	0.01SZ			
31	0.0		0.54		0.57		0.18	0.0			0.31	0.0			
TOTAL	2.95	2.75	3.56	2.33	2.04	4.79	5.14	3.81	2.08	2.57	0.54	1.07			
STA AV	2.69	2.40	3.53	3.40	3.75	4.15	4.25	2.92	2.74	2.26	2.54	2.42			

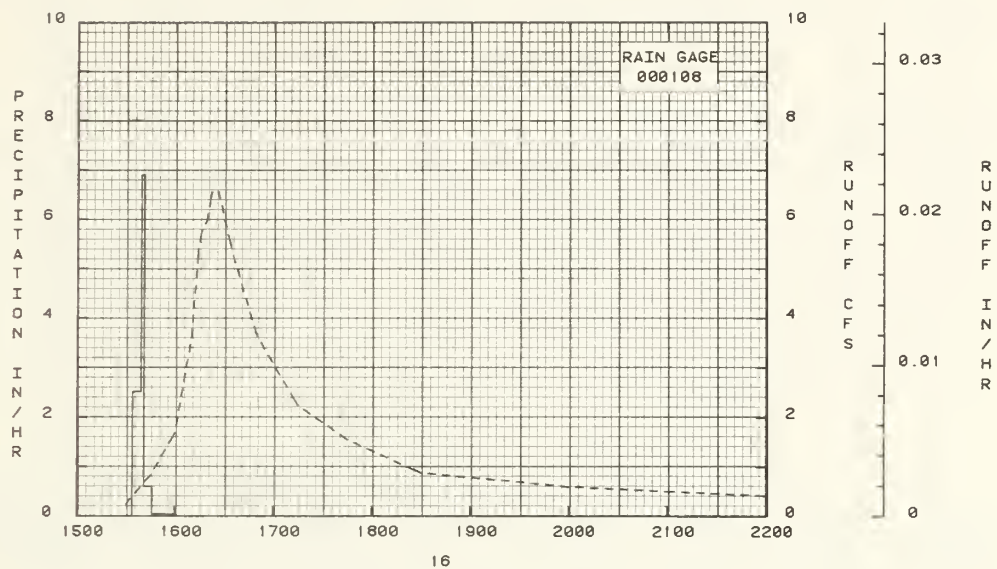
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 108. STA AV values are based on 40 yr (1937-76) record period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 196												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.090	0.590	0.503	0.834	0.320	0.451	0.095	0.073	0.050	0.039	0.147	0.042
2	0.949	0.429	0.471	0.952	0.290	0.129	0.079	0.056	0.050	0.036	0.095	0.037
3	1.436	0.406	0.566	0.780	0.272	0.085	0.066	0.052	0.048	0.034	0.091	0.031
4	0.808	0.406	3.276	0.732	0.211	0.071	0.060	0.050	0.044	0.033	0.085	0.030
5	0.658	0.394	1.317	0.644	0.189	0.066	0.056	0.052	0.040	0.031	0.079	0.030
6	0.594	0.350	0.976	0.562	0.180	0.064	0.054	0.105	0.039	0.035	0.076	0.060
7	0.610	0.294	0.817	0.503	0.231	0.060	0.060	0.501	0.039	0.037	0.073	0.275
8	0.534	0.280	0.729	0.452	0.164	0.056	0.964	0.090	0.039	0.036	0.066	0.075
9	0.463	0.261	0.661	0.417	0.148	0.052	0.130	0.068	0.121	0.098	0.060	0.064
10	0.440	1.970	0.697	0.383	0.138	0.048	0.221	0.064	0.071	0.055	0.054	0.081
11	0.431	1.729	0.697	0.339	0.140	0.057	7.685	0.060	0.046	0.042	0.048	0.108
12	0.383	0.818	0.611	0.308	0.123	0.081	0.950	0.056	0.040	0.037	0.044	0.092
13	2.497	1.114	0.577	0.289	0.118	0.048	0.511	0.053	0.039	0.036	0.042	0.082
14	2.161	0.758	0.489	0.270	0.114	0.046	0.383	0.656	0.039	0.034	0.042	0.072
15	1.058	0.752	0.452	0.251	0.115	0.046	0.282	0.693	0.039	0.033	0.042	0.058
16	0.815	1.383	0.464	0.226	0.253	0.065	0.636	0.181	0.061	0.033	0.042	0.054
17	0.610	1.533	0.394	0.196	0.186	0.063	0.310	0.115	0.082	0.033	0.042	0.054
18	0.545	10.335	0.417	0.182	0.152	0.046	0.204	0.095	0.059	0.033	0.042	0.050
19	0.517	3.077	0.417	0.176	0.115	0.222	0.170	0.085	0.058	0.033	0.042	0.049
20	0.477	1.805	0.418	0.170	0.098	0.092	0.153	0.076	0.096	0.101	0.042	0.088
21	0.440	1.612	4.010	0.507	0.088	0.060	0.149	0.068	0.050	0.066	0.042	0.052
22	0.417	2.414	1.168	0.715	0.079	0.050	0.148	0.062	0.040	0.043	0.040	0.046
23	0.394	1.290	0.946	0.379	0.076	0.049	0.207	0.058	0.036	0.041	0.037	0.046
24	0.489	1.071	0.817	0.299	0.073	0.551	0.141	0.058	0.031	0.391	0.033	0.046
25	1.414	0.921	0.754	0.820	0.071	0.967	0.095	0.136	0.030	0.103	0.047	0.046
26	8.237	0.817	0.661	0.735	0.068	0.145	0.085	0.106	0.054	0.064	0.063	0.052
27	2.186	0.729	0.706	0.454	0.066	0.106	0.082	0.079	0.074	0.054	0.060	0.058
28	1.436	0.644	0.565	0.383	0.066	0.095	0.081	0.088	0.051	0.048	0.058	0.058
29	1.140	0.562	0.503	0.339	0.066	0.085	0.090	0.084	0.044	0.046	0.050	0.058
30	0.925		0.477	0.308	0.064	0.206	0.079	0.060	0.047	0.057	0.042	0.056
31	0.780		0.910		0.140		0.089	0.054		0.842		0.054
MEAN	1.1270	1.3360	0.8538	0.4537	0.1425	0.1388	0.4618	0.1302	0.0520	0.0841	0.0576	0.0647
INCHES	2.744	3.044	2.079	1.069	0.347	0.327	1.125	0.317	0.123	0.205	0.136	0.157
STA AV	1.802	1.977	2.846	2.336	1.448	0.951	0.669	0.277	0.276	0.226	0.482	1.044

NOTES: To convert CFS to IN/DAY, multiply by 0.0786. STA AV values are based on 40-yr (1937-76) record period, part-year records included.

1976 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 196										
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 16 - 17, 1976										
RG 000108			RG 000108							
7-16	0.03	0.016	7-16	1534	0.0	0.0	7-16	1530	0.242	0.0
				1539	2.5201	0.21		1545	0.831	0.0004
				1541	6.8999	0.44		1600	1.690	0.0015
				1546	0.6000	0.49		1610	3.620	0.0029
				1600	0.0428	0.50		1614	5.400	0.0039
WATERSHED CONDITIONS:								1616	5.780	0.0045
Woods, 27%; grassland,								1619	5.970	0.0055
50%; cultivated, 19%;								1622	6.560	0.0065
miscellaneous, 4%. Water-								1626	6.560	0.0079
shed in improved practice.								1634	5.400	0.0105
								1650	3.620	0.0145
								1715	2.230	0.0185
								1745	1.540	0.0215
								1830	0.872	0.0245
								2000	0.593	0.0281
								2100	0.503	0.0299
								2400	0.406	0.0344
							7-17	1200	0.318	0.0486
								1330	0.280	0.0500
								2400	0.226	0.0587

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00327310.



EVENT OF JULY 16 - 17, 1976
COSHOCTON, OHIO WATERSHED 196

COSHOCTON, OHIO WATERSHED 174

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tnscharawas River, Muskingum River Basin. Lat. 40 deg. 21 min. 50 sec. N.; Long. 81 deg. 47 min. 32 sec. W.

AREA: 52.80 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								COSHOCTON, OHIO WATERSHED 174											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	2.43	2.73	3.69	2.28	2.28	5.07	5.03	3.58	1.85	2.57	0.62	1.04	33.17					
	Q	1.966	2.040	1.241	0.435	0.113	0.180	0.803	0.139	0.011	0.040	0.003	0.017	6.989					
STA AV	P	2.38	2.27	3.57	3.30	3.28	3.15	3.78	2.95	2.70	2.02	2.62	2.54	34.57					
	Q	1.107	1.349	2.103	1.439	0.636	0.268	0.412	0.115	0.149	0.112	0.345	0.641	8.675					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		7-11	0.637	7-11	0.439	7-11	0.553	7-11	0.604	7-11	0.620	1-25	0.780	1-25	0.908	2-15	1.363		
MAXIMUMS FOR PERIOD OF RECORD																			
		7- 5	1.085	4-25	0.820	4-25	1.110	7- 5	1.802	7- 5	2.154	7- 5	2.365	3- 9	2.540	3- 4	3.710		
		1969		1961		1961		1969		1969		1969		1969		1964		1964	

NOTES: Watershed conditions (approximate percentages): Cover of 15% hardwoods, 2% reforested, 67% grassland, 16% miscellaneous, watershed in improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 26.30-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.38-1 and 26.30-3. Precipitation data from rain gage 107. Precipitation and runoff records began June 1960. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976		DAILY PRECIPITATION (inches)					COSHOCTON, OHIO WATERSHED 174						
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1	0.0	0.02S	0.0	0.21H	0.09	0.83	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0
	2	0.14	0.0 T	0.07	0.07H	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3	0.16	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
	4	0.0	0.0	0.62	0.05H	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0
	5	0.0	0.51H	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
	6	0.0	0.05S	0.0	0.0	0.24	0.0	0.0	0.46	0.0	0.06	0.0	0.43
	7	0.45S	0.0	0.0	0.0	0.06	0.0	0.08	0.81	0.0	0.0 T	0.0 T	0.15
	8	0.08S	0.03S	0.0	0.0	0.0	0.0	1.29	0.0	0.0	0.0	0.0	0.0 T
	9	0.0	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.56	0.50	0.0 T	0.0
	10	0.0	0.0	0.29	0.0	0.0	0.0	0.31	0.0	0.02	0.0	0.01	0.0
	11	0.12H	0.0	0.0	0.03	0.04	0.24	1.86	0.0	0.0	0.0	0.0	0.0 T
	12	0.0	0.0 T	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
	13	0.49	0.0	0.02S	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0
	15	0.0	0.02	0.0	0.0	0.06	0.0	0.22	0.58	0.0	0.0 T	0.0	0.0
	16	0.07S	0.21	0.16S	0.0	0.61	0.34	0.49	0.0	0.23	0.0	0.0	0.0 T
	17	0.0	0.23	0.0	0.0	0.23	0.0	0.0	0.0	0.17	0.0	0.0	0.0
	18	0.0	1.18	0.0 T	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.01S	0.0	0.0 T	0.0	0.0	1.01	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.06S	0.0	0.34	0.0	0.0	0.11	0.0	0.0	0.31	0.56	0.0	0.16H
	21	0.04S	0.38	0.72	0.96	0.0	0.0	0.05	0.0	0.0	0.0 T	0.05S	0.01S
	22	0.01S	0.09H	0.0	0.22	0.0	0.01	0.01	0.0	0.0	0.0	0.0 T	0.0
	23	0.0	0.01S	0.0	0.0	0.0	0.04	0.29	0.0	0.0	0.20	0.0	0.0 T
	24	0.0	0.0	0.0	0.0	0.0	1.45	0.06	0.0	0.0	0.60	0.05H	0.0
	25	0.42	0.0	0.08	0.74	0.0 T	0.47	0.0	0.39	0.0	0.0 T	0.0	0.13SZ
	26	0.30H	0.0	0.01	0.0	0.0	0.0	0.0	0.17	0.35	0.0	0.17	0.12SZ
	27	0.0	0.0 T	0.21	0.0 T	0.0	0.0	0.02	0.0	0.15	0.0 T	0.06	0.01S
	28	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.17	0.0	0.0	0.17S	0.0 T
	29	0.02S	0.0	0.0	0.0	0.0	0.15	0.09	0.0	0.0	0.0	0.11S	0.02S
	30	0.06S		0.02	0.0	0.0	0.42	0.01	0.0	0.02	0.35	0.0	0.01S
	31	0.0		0.53		0.65		0.12	0.0		0.30		0.0
TOTAL		2.43	2.73	3.69	2.28	2.28	5.07	5.03	3.58	1.85	2.57	0.62	1.04
STA AV		2.38	2.27	3.57	3.30	3.28	3.15	3.78	2.95	2.70	2.02	2.62	2.54

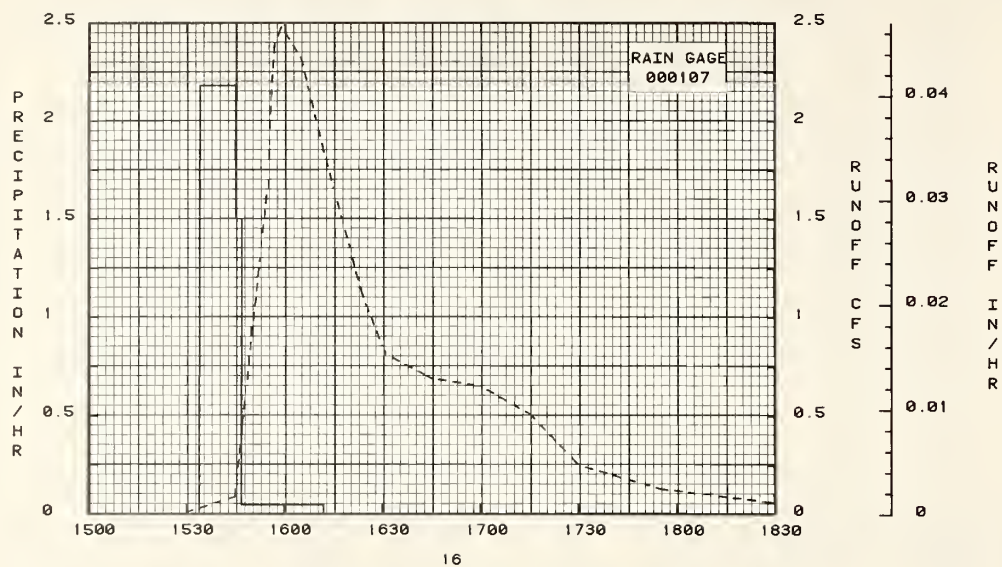
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 107. STA AV values are based on 17 yr (1960-76) record period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 174												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.120	0.036	0.027	0.074	0.019	0.062	0.0 T	0.001	0.001	0.0	0.002	0.0
2	0.092	0.027	0.027	0.098	0.020	0.005	0.0	0.0 T	0.0 T	0.0	0.0 T	0.0
3	0.194	0.021	0.046	0.059	0.017	0.002	0.0	0.0	0.0	0.0	0.0	0.0
4	0.065	0.019	0.619	0.050	0.013	0.002	0.0	0.0	0.0	0.0	0.0	0.0
5	0.047	0.017	0.149	0.042	0.011	0.002	0.0	0.0	0.0	0.0	0.0	0.0
6	0.039	0.017	0.089	0.036	0.011	0.002	0.0	0.001	0.0	0.0 T	0.0	0.003
7	0.039	0.015	0.064	0.030	0.017	0.002	0.0	0.072	0.0	0.0	0.0	0.034
8	0.033	0.013	0.050	0.024	0.011	0.002	0.137	0.002	0.0	0.0	0.0	0.001
9	0.024	0.011	0.042	0.021	0.008	0.002	0.003	0.001	0.004	0.002	0.001	0.0
10	0.021	0.522	0.054	0.019	0.007	0.001	0.016	0.001	0.003	0.001	0.002	0.0
11	0.021	0.201	0.052	0.017	0.007	0.001	1.350	0.001	0.001	0.0	0.0 T	0.0
12	0.019	0.071	0.040	0.015	0.008	0.0 T	0.072	0.0 T	0.0 T	0.0	0.0	0.0
13	0.504	0.111	0.039	0.013	0.006	0.0	0.014	0.001	0.0	0.0	0.0	0.0
14	0.268	0.051	0.030	0.013	0.005	0.0	0.007	0.092	0.0	0.0	0.0	0.0
15	0.112	0.052	0.027	0.011	0.005	0.0	0.011	0.098	0.0	0.0	0.0	0.0
16	0.074	0.195	0.031	0.010	0.025	0.001	0.099	0.006	0.0 T	0.0	0.0	0.0
17	0.050	0.182	0.024	0.010	0.012	0.0	0.018	0.002	0.001	0.0	0.0	0.0
18	0.042	1.623	0.029	0.008	0.009	0.0	0.007	0.002	0.001	0.0	0.0	0.0
19	0.039	0.293	0.027	0.007	0.005	0.033	0.005	0.001	0.0 T	0.0	0.0	0.0
20	0.033	0.163	0.027	0.007	0.004	0.004	0.005	0.001	0.005	0.003	0.0	0.001
21	0.027	0.160	0.680	0.049	0.003	0.001	0.005	0.001	0.001	0.003	0.0	0.0
22	0.024	0.297	0.113	0.058	0.002	0.0	0.005	0.001	0.0	0.001	0.0	0.0
23	0.021	0.112	0.083	0.029	0.002	0.0	0.009	0.001	0.0	0.001	0.0	0.0
24	0.075	0.083	0.064	0.019	0.002	0.111	0.005	0.001	0.0	0.033	0.0	0.0
25	0.434	0.064	0.050	0.091	0.002	0.144	0.002	0.006	0.0	0.004	0.0	0.0
26	1.468	0.050	0.042	0.056	0.002	0.004	0.002	0.005	0.001	0.0 T	0.0 T	0.0
27	0.199	0.042	0.049	0.033	0.002	0.0 T	0.002	0.002	0.001	0.0	0.0 T	0.0
28	0.106	0.036	0.033	0.024	0.002	0.0	0.002	0.002	0.001	0.0	0.0	0.0
29	0.073	0.030	0.027	0.021	0.002	0.0 T	0.001	0.002	0.001	0.0	0.0	0.0
30	0.055		0.024	0.019	0.002	0.016	0.0 T	0.001	0.0 T	0.001	0.0	0.0
31	0.042		0.091		0.008		0.001	0.001		0.039		0.0
MEAN	0.1407	0.1561	0.0888	0.0322	0.0081	0.0133	0.0575	0.0100	0.0008	0.0028	0.0002	0.0012
INCHES	1.966	2.040	1.241	0.435	0.113	0.180	0.803	0.139	0.011	0.040	0.003	0.017
STA AV	1.107	1.349	2.103	1.439	0.636	0.268	0.412	0.115	0.149	0.112	0.345	0.641

NOTES: To convert CFS to IN/DAY, multiply by 0.45079. STA AV values are based on 17 yr (1960-76) record period, part-year records included.

1976 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 174										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 16 - 17, 1976										
EG 000107										
7-16	0.02	0.003	7-16	1534	0.0	0.0	7-16	1530	0.007	0.0
				1545	2.1818	0.40		1545	0.094	0.0002
				1547	1.5001	0.45		1555	1.700	0.0030
				1612	0.0480	0.47		1556	2.160	0.0036
								1557	2.400	0.0044
WATERSHED CONDITIONS:										
Cover of hardwoods, 15%;										
reforested, 2%; grassland,										
67%; miscellaneous, 16%.										
								1559	2.480	0.0059
								1605	2.320	0.0104
								1612	1.840	0.0150
								1624	1.100	0.0205
								1631	0.814	0.0226
								1645	0.691	0.0259
								1700	0.653	0.0290
								1715	0.514	0.0318
								1730	0.252	0.0336
								1755	0.131	0.0351
								1930	0.064	0.0380
								2115	0.039	0.0397
								2400	0.027	0.0414

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01878000.



EVENT OF JULY 16 - 17, 1976
COSHOCTON, OHIO WATERSHED 174

COSHOCTON, OHIO WATERSHED 194

LOCATION: Coshocton Co., Ohio 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 21 min. 47 sec. N.; Long. 81 deg. 47 min. 23 sec. W.

AREA: 187.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								COSHOCTON, OHIO WATERSHED 194									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	2.43	2.73	3.69	2.28	2.28	5.07	5.03	3.58	1.85	2.57	0.62	1.04	33.17			
	Q	2.405	2.621	1.971	0.902	0.280	0.321	0.981	0.256	0.081	0.109	0.056	0.089	10.073			
STA AV	P	2.40	2.32	3.43	3.20	3.25	3.15	3.78	2.95	2.70	2.02	2.62	2.54	34.36			
	Q	1.531	1.829	2.907	2.142	1.239	0.526	0.571	0.174	0.238	0.228	0.519	0.961	12.865			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1976		7-11	0.434	7-11	0.328	7-11	0.445	7-11	0.506	7-11	0.537	1-25	0.702	2-17	0.878	2-16	1.590
MAXIMUMS FOR PERIOD OF RECORD																	
		7-5	0.959	4-25	0.680	4-25	0.930	7-5	1.620	7-5	1.979	7-5	2.269	3-9	2.600	3-4	3.890
		1969		1961		1961		1969		1969		1969		1964		1964	

NOTES: Watershed conditions (approximate percentages): Cover of 21% hardwoods, 2% reforested, 58% grassland, 11% cultivated, 8% miscellaneous, watershed in improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 26.30-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.39-1 and 26.30-3. Precipitation data from rain gage 107. Precipitation and runoff records began Jan. 1960. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976		DAILY PRECIPITATION (inches)					COSHOCTON, OHIO WATERSHED 194							
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.02S	0.0	0.21M	0.09	0.83	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0	
	2	0.14	0.0 T	0.07E	0.07M	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	3	0.16	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	
	4	0.0	0.0	0.62	0.05M	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	
	5	0.0	0.51M	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	
	6	0.0	0.05S	0.0	0.0	0.24	0.0	0.0	0.46	0.0	0.06	0.0	0.43	
	7	0.45S	0.0	0.0	0.0	0.06	0.0	0.08	0.81	0.0	0.0 T	0.0 T	0.15	
	8	0.08S	0.03S	0.0	0.0	0.0	0.0	1.29	0.0	0.0	0.0	0.0	0.0 T	
	9	0.0	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.56	0.50	0.0 T	0.0	
	10	0.0	0.0	0.29	0.0	0.0	0.0	0.31	0.0	0.02	0.0	0.01E	0.0	
	11	0.12M	0.0	0.0	0.03E	0.04E	0.24	1.86	0.0	0.0	0.0	0.0	0.0 T	
	12	0.0	0.0 T	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	
	13	0.49E	0.0	0.02S	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	
	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	
	15	0.0	0.02E	0.0	0.0	0.06	0.0	0.22	0.58	0.0	0.0 T	0.0	0.0	
	16	0.07S	0.21	0.16S	0.0	0.61	0.34	0.49	0.0	0.23	0.0	0.0	0.0 T	
	17	0.0	0.23	0.0	0.0	0.23	0.0	0.0	0.0	0.17	0.0	0.0	0.0	
	18	0.0	1.18	0.0 T	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	19	0.01S	0.0	0.0 T	0.0	0.0	1.01	0.0	0.0	0.0	0.0	0.0	0.0	
	20	0.06S	0.0	0.34	0.0	0.0	0.11	0.0	0.0	0.31	0.56	0.0	0.16M	
	21	0.04S	0.38	0.72	0.96	0.0	0.0	0.05	0.0	0.0	0.0 T	0.05S	0.01S	
	22	0.01S	0.09S	0.0	0.22	0.0	0.01	0.01	0.0	0.0	0.0	0.0 T	0.0	
	23	0.0	0.01S	0.0	0.0	0.0	0.04	0.29	0.0	0.0	0.20	0.0	0.0 T	
	24	0.0	0.0	0.0	0.0	0.0	1.45	0.06	0.0	0.0	0.60	0.05M	0.0	
	25	0.42	0.0	0.08	0.74	0.0 T	0.47	0.0	0.39	0.0	0.0 T	0.0	0.13SZ	
	26	0.30S	0.0	0.01	0.0	0.0	0.0	0.0	0.17	0.35	0.0	0.17	0.12SZ	
	27	0.0	0.0 T	0.21	0.0 T	0.0	0.0	0.02	0.0	0.15	0.0 T	0.06	0.01S	
	28	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.17	0.0	0.0	0.17S	0.0 T	
	29	0.02S	0.0	0.0	0.0	0.0	0.15	0.09	0.0	0.0	0.0	0.11S	0.02S	
	30	0.06S	0.02	0.0	0.0	0.0	0.42	0.01	0.0	0.02	0.35	0.0	0.01S	
	31	0.0	0.53E	0.65	0.0	0.65	0.0	0.12	0.0	0.0	0.30	0.0	0.0	
TOTAL		2.43	2.73	3.69	2.28	2.28	5.07	5.03	3.58	1.85	2.57	0.62	1.04	
STA AV		2.40	2.32	3.43	3.20	3.25	3.15	3.78	2.95	2.70	2.02	2.62	2.54	

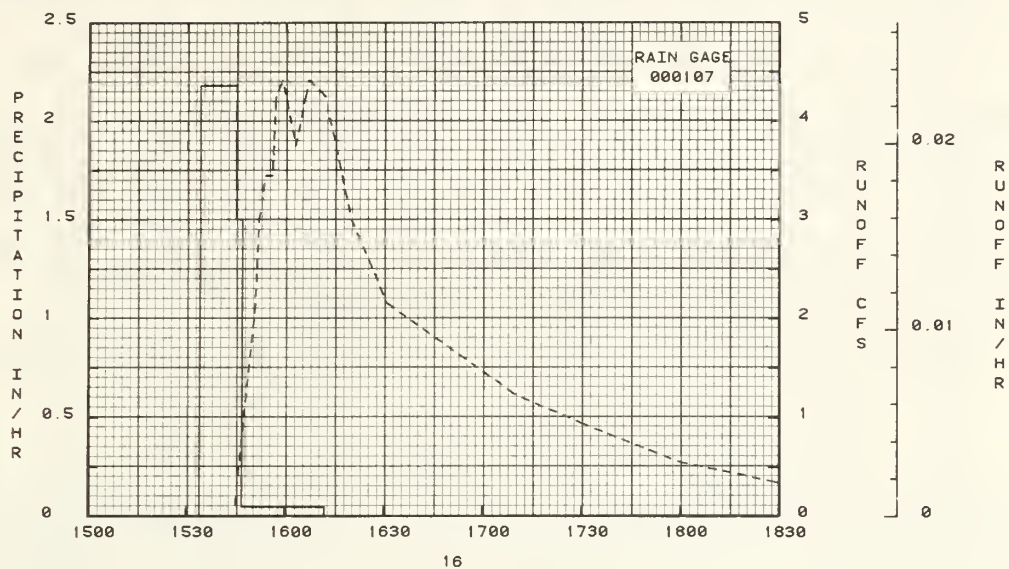
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 107. STA AV values are based on 17 yr period. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

COSHOCTON, OHIO WATERSHED 194												
1976	MEAN DAILY DISCHARGE (cfs)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.638	0.277	0.274	0.470	0.129	0.249	0.052	0.042	0.021	0.015	0.034	0.010
2	0.529	0.215	0.276	0.537	0.131	0.073	0.042	0.032	0.018	0.015	0.028	0.010
3	0.356	0.215	0.360	0.437	0.116	0.052	0.037	0.028	0.015	0.015	0.024	0.010
4	0.147	0.201	2.570	0.399	0.103	0.042	0.037	0.028	0.015	0.015	0.018	0.010
5	0.339	0.176	0.741	0.359	0.094	0.037	0.032	0.028	0.015	0.015	0.015	0.010
6	0.340	0.152	0.545	0.322	0.092	0.037	0.028	0.061	0.015	0.020	0.015	0.047
7	0.322	0.165	0.458	0.289	0.108	0.037	0.032	0.292	0.015	0.021	0.015	0.153
8	0.274	0.142	0.397	0.258	0.086	0.037	0.534	0.047	0.015	0.010	0.015	0.036
9	0.229	0.121	0.359	0.229	0.079	0.037	0.072	0.037	0.068	0.043	0.015	0.024
10	0.215	1.237	0.387	0.215	0.072	0.032	0.126	0.032	0.027	0.014	0.015	0.025
11	0.215	1.010	0.380	0.201	0.074	0.042	4.078	0.024	0.021	0.010	0.015	0.033
12	0.201	0.438	0.344	0.176	0.065	0.039	0.526	0.021	0.021	0.010	0.012	0.028
13	1.628	0.567	0.323	0.152	0.058	0.028	0.246	0.029	0.021	0.010	0.010	0.028
14	1.115	0.362	0.274	0.131	0.058	0.028	0.164	0.346	0.021	0.010	0.010	0.028
15	0.570	0.369	0.258	0.121	0.058	0.028	0.143	0.342	0.021	0.010	0.010	0.024
16	0.420	0.785	0.253	0.112	0.135	0.046	0.340	0.080	0.028	0.010	0.010	0.018
17	0.291	0.823	0.229	0.103	0.086	0.038	0.154	0.058	0.037	0.010	0.010	0.015
18	0.243	5.339	0.239	0.103	0.071	0.024	0.112	0.052	0.021	0.010	0.010	0.015
19	0.243	1.560	0.229	0.103	0.052	0.154	0.094	0.042	0.015	0.010	0.010	0.019
20	0.243	0.985	0.233	0.103	0.047	0.057	0.086	0.032	0.047	0.050	0.010	0.037
21	0.229	0.925	2.261	0.306	0.047	0.037	0.086	0.028	0.018	0.017	0.010	0.018
22	0.201	1.289	0.675	0.322	0.047	0.032	0.086	0.024	0.012	0.010	0.010	0.012
23	0.188	0.717	0.545	0.165	0.047	0.028	0.129	0.021	0.010	0.011	0.010	0.010
24	0.256	0.592	0.458	0.131	0.042	0.353	0.082	0.021	0.010	0.146	0.010	0.010
25	0.961	0.501	0.399	0.371	0.037	0.490	0.058	0.067	0.010	0.037	0.015	0.010
26	5.181	0.437	0.322	0.310	0.037	0.103	0.058	0.050	0.023	0.021	0.025	0.010
27	1.201	0.378	0.355	0.201	0.037	0.079	0.058	0.032	0.030	0.018	0.018	0.010
28	0.755	0.322	0.289	0.176	0.037	0.072	0.062	0.035	0.018	0.012	0.015	0.010
29	0.570	0.289	0.274	0.152	0.037	0.065	0.058	0.034	0.015	0.010	0.015	0.010
30	0.439		0.258	0.131	0.037	0.142	0.042	0.021	0.015	0.019	0.012	0.010
31	0.359		0.517		0.081		0.047	0.021		0.227		0.010
MEAN	0.6096	0.7102	0.4995	0.2363	0.0710	0.0840	0.2486	0.0649	0.0213	0.0275	0.0148	0.0226
INCHES	2.405	2.621	1.971	0.902	0.280	0.321	0.981	0.256	0.081	0.109	0.056	0.089
STA AV	1.531	1.829	2.907	2.142	1.239	0.526	0.571	0.174	0.238	0.228	0.519	0.961

NOTES: To convert CFS to IN/DAY, multiply by 0.12728. STA AV values are based on 17 yr period.

1976	SELECTED RUNOFF EVENT						COSHOCTON, OHIO WATERSHED 194					
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 16 - 17, 1976												
RG 000107			RG 000107									
7-16	0.02	0.012	7-16	1534	0.0	0.0	7-16	1545	0.121	0.0		
				1545	2.1818	0.40		1551	2.150	0.0006		
				1547	1.5001	0.45		1552	3.000	0.0008		
				1612	0.0480	0.47		1554	3.450	0.0014		
								1556	3.450	0.0020		
WATERSHED CONDITIONS: 21% hardwoods; 2% re-forested; 58% grassland; 11% cultivated; 8% miscellaneous. Watershed in improved practice.								1557	4.250	0.0023		
								1559	4.420	0.0031		
								1603	3.750	0.0046		
								1606	4.250	0.0056		
								1607	4.420	0.0060		
								1612	4.250	0.0079		
								1620	3.000	0.0105		
								1631	2.150	0.0130		
								1710	1.230	0.0188		
								1730	0.940	0.0207		
							1800	0.545	0.0227			
							1900	0.340	0.0250			
							2000	0.274	0.0267			
							2200	0.215	0.0293			
							2400	0.188	0.0314			
							7-17	2400	0.121	0.0511		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00530300.



EVENT OF JULY 16 - 17, 1976
COSHOCOTON, OHIO WATERSHED 194

COSHOCTON, OHIO WATERSHED 182

LOCATION: Coshocton Co., Ohio; 10 mi NE of Coshocton, Tuscarawas River, Walhounding River, Muskingum River Basin.
Lat. 40 deg. 21 min. 36 sec. N.; Long. 81 deg. 46 min. 55 sec. W.

AREA: 69.60 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										COSROCTON, OHIO WATERSHED 182							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	2.89	2.72	3.56	2.21	1.89	4.72	5.55	3.95	2.12	2.58	0.70	1.01	33.90			
	Q	2.612	2.631	1.924	0.992	0.273	0.180	0.948	0.256	0.050	0.055	0.037	0.070	10.028			
STA AV	P	2.58	2.27	3.66	3.54	3.54	2.99	4.22	3.04	3.00	2.28	2.80	2.86	36.78			
	Q	1.547	1.677	2.427	1.741	1.112	0.249	0.753	0.115	0.340	0.203	0.345	0.974	11.482			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		2-18	0.111	2-18	0.101	2-18	0.180	2-18	0.356	2-18	0.451	2-18	0.659	2-17	0.855	2-16	1.557
MAXIMUMS FOR PERIOD OF RECORD																	
		7- 5	0.966	7- 5	0.486	7- 5	0.696	7- 5	1.537	7- 5	1.832	7- 5	2.190	3- 9	2.640	3- 4	3.960
		1969		1969		1969		1969		1969		1969		1964		1964	

NOTES: Watershed conditions (approximate percentages): Cover of 3% hardwoods, 9% pastured woodland, 5% reforested, 49% grassland, 34% cultivated, prevailing practice except for 10% of area which was strip cropped. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 26.40-2. For Geology description, see foregoing reference, p. 26.40-1. Gage for Watershed 182 is 400 ft. upstream from that of Watershed 183, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164 and earlier publications of this series. Precipitation data from rain gage 119. Precipitation and runoff records began January, 1964. Runoff measurements discontinued Dec. 31, 1970 to May 1974. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 182	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0 T	0.0	0.15M	0.06	0.82	0.0 T	0.01	0.0 T	0.0	0.0	0.0	0.0	0.0
2	0.14	0.0 T	0.06	0.10M	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.16	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
4	0.0	0.0	0.41	0.04M	0.0	0.0	0.0	0.0	0.07	0.0	0.0 T	0.0	0.0	0.0
5	0.0	0.69M	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0
6	0.0	0.03S	0.0	0.0	0.22	0.0	0.0	0.50	0.0	0.10	0.0	0.46	0.0	0.0
7	0.59S	0.0	0.0	0.0	0.05	0.0	0.25	0.84	0.0	0.0 T	0.0 T	0.14	0.0	0.0
8	0.15S	0.01S	0.0	0.0	0.0	0.0	1.46	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 T
9	0.0	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.65	0.45	0.0 T	0.0	0.0	0.0
10	0.0	0.0	0.31	0.0	0.0	0.0	0.39	0.0	0.0 T	0.0	0.02	0.0	0.0	0.0
11	0.15M	0.0	0.0	0.04	0.04	0.53	1.72	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 T
12	0.0	0.0 T	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0
13	0.51	0.0	0.02S	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.02	0.0	0.0	0.06	0.0	0.23	0.73	0.0	0.0 T	0.0	0.0	0.0	0.0
16	0.11S	0.21	0.19S	0.0	0.51	0.37	0.53	0.0	0.33	0.0	0.0	0.0 T	0.0	0.0 T
17	0.0	0.23	0.0	0.0	0.20	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0
18	0.0	1.09	0.0 T	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.01S	0.0	0.0 T	0.0	0.0	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.14S	0.0	0.34	0.0	0.0	0.09	0.0	0.0	0.30	0.56	0.0	0.19M	0.0	0.0
21	0.05S	0.35	0.65	0.96	0.0	0.0	0.06	0.0	0.0	0.0 T	0.05S	0.01S	0.0	0.0
22	0.01S	0.08M	0.0	0.18	0.0	0.01	0.01	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0
23	0.0	0.01S	0.0	0.0	0.0	0.03	0.30	0.0	0.0	0.21	0.0	0.0 T	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	1.30	0.06	0.0	0.0	0.60	0.05M	0.0	0.0	0.0
25	0.43	0.0	0.09	0.74	0.0 T	0.31	0.0	0.40	0.0	0.0 T	0.0	0.08S2	0.0	0.0
26	0.33M	0.0	0.0 T	0.0	0.0	0.0	0.0	0.17	0.34	0.0	0.19	0.08S2	0.0	0.0
27	0.0	0.0 T	0.21	0.0 T	0.0	0.0	0.03	0.0	0.16	0.0 T	0.07	0.01S2	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.19	0.0	0.0	0.25S	0.01S2	0.0	0.0
29	0.01S	0.0	0.0 T	0.0	0.0	0.16	0.07	0.0	0.0	0.0	0.07S	0.02S2	0.0	0.0
30	0.10S	0.0	0.0 T	0.0	0.0	0.40	0.0 T	0.0	0.07	0.37	0.0	0.01S2	0.0	0.0
31	0.0	0.0	0.57	0.52	0.0	0.0	0.29	0.0	0.0	0.29	0.0	0.0	0.0	0.0
TOTAL		2.89	2.72	3.56	2.21	1.89	4.72	5.55	3.95	2.12	2.58	0.70	1.01	
STA AV		2.58	2.27	3.66	3.54	3.54	2.99	4.22	3.04	3.00	2.28	2.80	2.86	

NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 119. STA AV values are based on 13 yr (1964-76) record period. Code 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

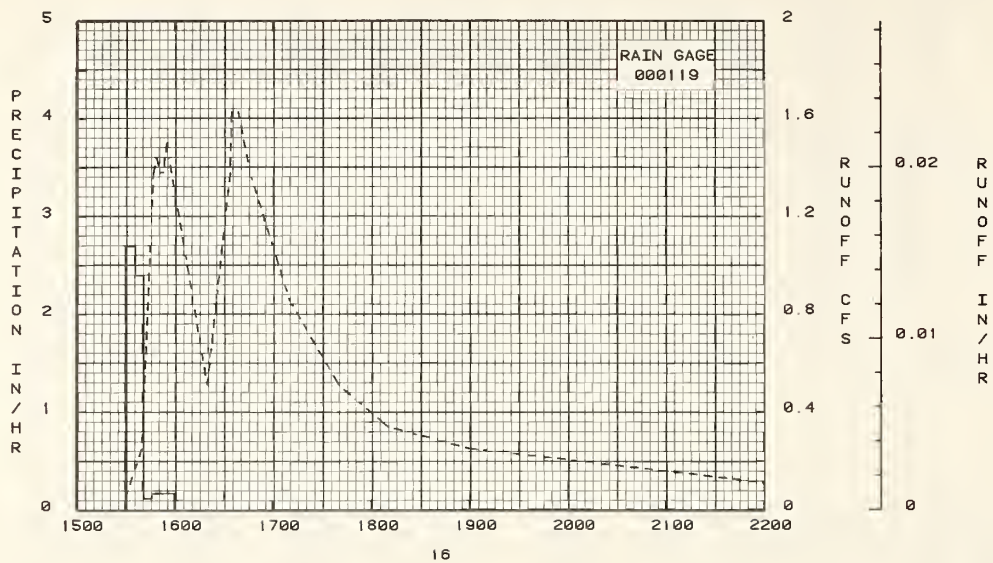
Cooperative Research Project of USDA and Ohio Agricultural Research and Development Center, Wooster, Ohio

COSHOCTON, OHIO WATERSHED 182												
1976	MEAN DAILY DISCHARGE (cfs)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.233	0.139	0.110	0.192	0.058	0.070	0.006	0.008	0.005	0.001	0.012	0.001
2	0.186	0.099	0.109	0.223	0.052	0.020	0.004	0.007	0.005	0.001	0.008	0.001
3	0.310	0.083	0.147	0.171	0.050	0.013	0.002	0.007	0.005	0.001	0.006	0.001
4	0.162	0.083	0.642	0.155	0.042	0.010	0.002	0.007	0.005	0.001	0.005	0.001
5	0.128	0.078	0.272	0.139	0.039	0.008	0.002	0.006	0.005	0.001	0.005	0.001
6	0.110	0.068	0.214	0.123	0.040	0.006	0.002	0.015	0.005	0.002	0.005	0.012
7	0.131	0.062	0.179	0.110	0.041	0.005	0.003	0.077	0.005	0.001	0.004	0.050
8	0.118	0.059	0.155	0.099	0.033	0.005	0.182	0.013	0.004	0.001	0.003	0.011
9	0.094	0.055	0.139	0.088	0.030	0.004	0.022	0.010	0.020	0.009	0.003	0.006
10	0.083	0.430	0.162	0.078	0.027	0.003	0.033	0.008	0.007	0.002	0.003	0.009
11	0.085	0.325	0.176	0.073	0.027	0.015	1.611	0.007	0.005	0.001	0.003	0.011
12	0.078	0.172	0.137	0.068	0.024	0.006	0.161	0.006	0.005	0.001	0.003	0.010
13	0.790	0.194	0.126	0.059	0.021	0.002	0.083	0.008	0.005	0.001	0.003	0.010
14	0.437	0.141	0.105	0.055	0.021	0.002	0.064	0.124	0.005	0.001	0.003	0.008
15	0.253	0.149	0.099	0.050	0.021	0.002	0.063	0.196	0.005	0.001	0.003	0.007
16	0.214	0.291	0.100	0.046	0.043	0.007	0.179	0.041	0.009	0.001	0.003	0.006
17	0.171	0.327	0.088	0.042	0.032	0.004	0.080	0.024	0.008	0.001	0.003	0.005
18	0.139	1.926	0.098	0.039	0.027	0.002	0.044	0.021	0.003	0.001	0.003	0.004
19	0.118	0.580	0.094	0.036	0.024	0.022	0.030	0.019	0.002	0.001	0.002	0.005
20	0.099	0.359	0.091	0.033	0.019	0.007	0.027	0.015	0.008	0.013	0.002	0.012
21	0.094	0.347	0.784	0.130	0.015	0.003	0.027	0.011	0.002	0.004	0.002	0.005
22	0.088	0.477	0.215	0.150	0.013	0.002	0.027	0.010	0.001	0.001	0.002	0.004
23	0.083	0.258	0.187	0.077	0.013	0.002	0.032	0.008	0.001	0.001	0.002	0.003
24	0.145	0.214	0.171	0.059	0.011	0.080	0.019	0.007	0.001	0.028	0.002	0.003
25	0.411	0.187	0.163	0.194	0.010	0.166	0.011	0.023	0.001	0.006	0.004	0.003
26	1.567	0.171	0.139	0.140	0.010	0.018	0.008	0.020	0.006	0.004	0.004	0.003
27	0.422	0.155	0.158	0.083	0.008	0.008	0.007	0.013	0.006	0.003	0.003	0.003
28	0.286	0.139	0.123	0.068	0.007	0.006	0.008	0.013	0.002	0.003	0.002	0.003
29	0.233	0.123	0.110	0.059	0.007	0.004	0.009	0.011	0.002	0.002	0.001	0.002
30	0.196		0.099	0.055	0.007	0.021	0.007	0.005	0.002	0.006	0.001	0.002
31	0.171		0.231		0.022		0.015	0.005		0.058		0.002
MEAN	0.2464	0.2553	0.1815	0.0967	0.0257	0.0175	0.0894	0.0242	0.0049	0.0052	0.0036	0.0066
INCHES	2.612	2.631	1.924	0.992	0.273	0.180	0.948	0.256	0.050	0.055	0.037	0.070
STA AV	1.547	1.677	2.427	1.741	1.112	0.249	0.753	0.115	0.340	0.203	0.345	0.974

NOTES: To convert CFS to IN/DAY, multiply by 0.34198. STA AV values are based on 10 yr (1964-Dec. 1970, May 1974-76) record period. Part-year records included.

COSHOCTON, OHIO WATERSHED 182										
1976	SELECTED RUNOFF EVENT									
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 16 - 17, 1976										
RG 000119										
7-16 0.01 0.014 7-16										
RG 000119										
1530 0.0 0.0 7-16 1530 0.055 0.0										
1536 2.7000 0.27 1540 0.252 0.0004										
1541 2.4000 0.47 1547 1.380 0.0017										
1546 0.1199 0.48 1549 1.440 0.0024										
1600 0.1715 0.52 1551 1.380 0.0031										
WATERSHED CONDITIONS:										
Cover of 3%, hardwoods; 9%,										
pastured woodland; 5%, re-										
forested; 49%, grassland;										
34%, cultivated miscel-										
laneous.										
1553 1.380 0.0037										
1555 1.500 0.0044										
1558 1.380 0.0054										
1620 0.514 0.0104										
1634 1.380 0.0135										
1635 1.630 0.0139										
1639 1.630 0.0154										
1646 1.380 0.0179										
1710 0.858 0.0243										
1740 0.514 0.0292										
1810 0.342 0.0323										
1900 0.252 0.0358										
2110 0.147 0.0419										
2400 0.105 0.0470										

NOTES: To convert runoff in CFS TO IN/HR, multiply by 0.01424900.



EVENT OF JULY 16 - 17, 1976
COSHOCKTON, OHIO WATERSHED 182

LOCATION: Coshocton County, Ohio; 10 miles NE of Coshocton; Walbonding River, Muskingum River Basin. Lat. 40 deg. 21 min. 36 sec. N.; Long. 81 deg. 47 min. 57 sec. W.

AREA: 79.20 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								COSHOCTON, OHIO WATERSHED 166									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	2.58	2.68	3.76	1.95	2.06	4.79	4.93	3.68	1.92	2.57	0.49	1.07	32.48			
	Q	2.501	2.364	1.889	0.749	0.189	0.379	0.928	0.343	0.098	0.172	0.095	0.156	9.963			
STA AV	P	2.60	2.28	3.36	3.29	3.75	3.80	4.22	2.95	2.71	2.07	2.42	2.36	35.81			
	Q	1.136	1.404	1.829	1.162	0.954	0.248	1.128	0.132	0.040	0.073	0.230	0.802	9.138			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		7-11	0.189	7-11	0.148	7-11	0.206	7-11	0.249	1-25	0.278	1-25	0.439	1-25	0.602	2-16	1.282
MAXIMUMS FOR PERIOD OF RECORD																	
		7-27	0.921	7-5	0.539	7-5	0.866	7-5	1.593	7-5	1.876	7-5	2.054	7-5	2.249	7-4	3.215
		1969		1969		1969		1969		1969		1969		1969		1969	

NOTES: Watershed conditions (approximate percentages): Cover of 4%, hardwoods; 6%, reforested; 67%, grassland; 17%, cultivated; 6%, miscellaneous. Watershed in improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 26.41-7. Precipitation records began 1940. Runoff records began January 1, 1967. Precipitation data from rain gage 103. Reporting rain gage changed to 103 beginning 1976. Station averages not recomputed. Runoff measurements discontinued July 1, 1972 to Oct. 13, 1975. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 166	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.01S	0.0	0.15M	0.08	0.78	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0			
2	0.15	0.0 T	0.11	0.05M	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.16	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T			
4	0.0	0.0	0.69	0.03M	0.0	0.0	0.0	0.0	0.06	0.0	0.0 T	0.0			
5	0.0	0.59M	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0			
6	0.0	0.04S	0.0	0.0	0.24	0.0	0.0	0.54	0.0	0.07	0.0	0.44			
7	0.49S	0.0	0.0	0.0	0.06	0.0	0.10	0.86	0.0	0.0 T	0.0 T	0.12			
8	0.05S	0.01S	0.0	0.0	0.0	0.0	1.27	0.0	0.0	0.0	0.0	0.0 T			
9	0.0	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.49	0.50	0.0 T	0.0			
10	0.0	0.0	0.29	0.0	0.0	0.0	0.29	0.0	0.0 T	0.0	0.01	0.0			
11	0.10M	0.0	0.0	0.0 T	0.05	0.21	1.75	0.0	0.0	0.0	0.0	0.0 T			
12	0.0	0.0 T	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0			
13	0.49	0.0	0.02S	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0			
15	0.0	0.33	0.0	0.0	0.05	0.0	0.25	0.58	0.0	0.0 T	0.0	0.0			
16	0.10S	0.23	0.06S	0.0	0.60	0.36	0.52	0.0	0.27	0.0	0.0	0.0 T			
17	0.0	0.23	0.0	0.0	0.19	0.0	0.0	0.0	0.26	0.0	0.0	0.0			
18	0.0	1.10	0.0 T	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.03S	0.0	0.0 T	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.21S	0.3	0.40	0.0	0.0	0.17	0.0	0.0	0.28	0.55	0.0	0.21M			
21	0.05S	0.36	0.73	0.85	0.0	0.0	0.06	0.0	0.0	0.0 T	0.04S	0.01S			
22	0.01S	0.08M	0.0	0.24	0.0	0.02	0.0 T	0.0	0.0	0.0	0.0 T	0.0			
23	0.0	0.3 T	0.0	0.0	0.0	0.01	0.27	0.0	0.0	0.20	0.0	0.0 T			
24	0.0	0.0	0.0	0.0	0.0	1.31	0.06	0.0	0.0	0.60	0.06M	0.0			
25	0.40	0.3	0.07	0.63	0.0 T	0.32	0.0	0.45	0.0	0.0 T	0.0	0.13SZ			
26	0.27M	0.0	0.0 T	0.0	0.0	0.0	0.0	0.17	0.35	0.0	0.11	0.12SZ			
27	0.0	0.3 T	0.20	0.0 T	0.0	0.0	0.04	0.0	0.17	0.0 T	0.07	0.01SZ			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.15	0.0	0.0	0.13S	0.01SZ			
29	0.01S	0.0	0.0 T	0.0	0.0	0.22	0.14	0.0	0.0	0.0	0.07S	0.01SZ			
30	0.06S	0.0 T	0.0	0.0	0.0	0.39	0.0 T	0.0	0.04	0.36	0.0	0.01SZ			
31	0.0		0.56		0.55		0.06	0.0		0.29		0.0			
TOTAL	2.58	2.68	3.76	1.95	2.06	4.79	4.93	3.68	1.92	2.57	0.49	1.07			
STA AV	2.60	2.28	3.36	3.29	3.75	3.80	4.22	2.95	2.71	2.07	2.42	2.36			

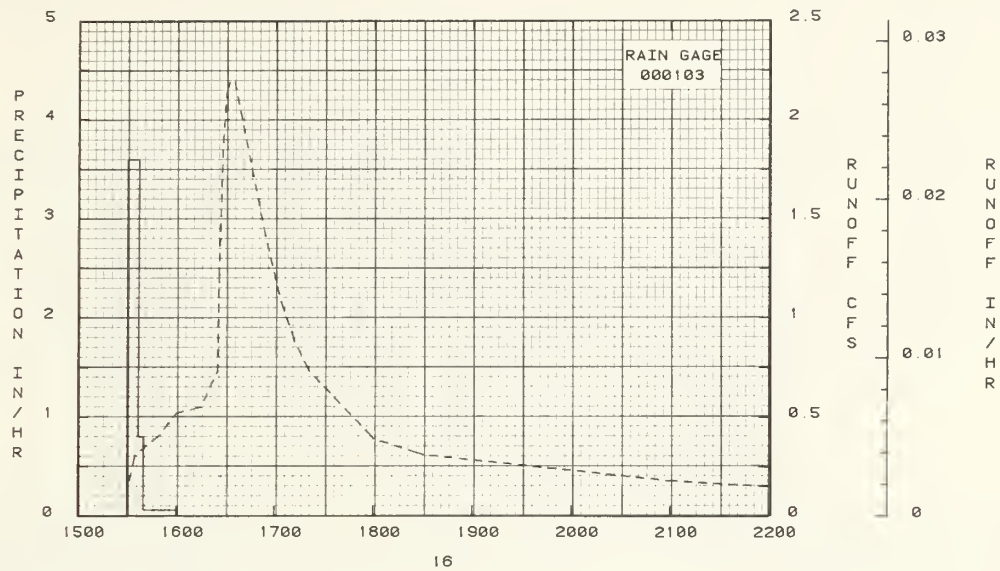
NOTES: For daily air temperatures for the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 103. STA AV values are based on 34 yr (1940-76) record period. Reporting gage changed to 103 beginning 1976. Station averages not recomputed. Part-year records included in STA AV values. Code 'E' may reflect estimated storm duration rather than estimated rainfall amount. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 166												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.272	0.175	0.142	0.180	0.047	0.078	0.047	0.024	0.011	0.009	0.033	0.003
2	0.255	0.136	0.135	0.189	0.044	0.047	0.034	0.021	0.013	0.007	0.024	0.003
3	0.323	0.118	0.147	0.161	0.046	0.027	0.024	0.021	0.015	0.007	0.021	0.003
4	0.219	0.112	0.581	0.142	0.030	0.021	0.021	0.021	0.015	0.007	0.018	0.003
5	0.182	0.107	0.329	0.124	0.024	0.018	0.018	0.014	0.015	0.007	0.015	0.003
6	0.173	0.096	0.276	0.112	0.022	0.015	0.015	0.015	0.013	0.009	0.015	0.008
7	0.182	0.076	0.242	0.101	0.031	0.015	0.017	0.166	0.009	0.009	0.013	0.096
8	0.156	0.071	0.211	0.091	0.024	0.013	0.235	0.038	0.007	0.007	0.011	0.022
9	0.142	0.096	0.182	0.081	0.021	0.011	0.058	0.024	0.011	0.023	0.012	0.013
10	0.124	0.511	0.184	0.071	0.021	0.011	0.081	0.021	0.011	0.022	0.011	0.019
11	0.118	0.363	0.172	0.062	0.018	0.012	0.880	0.021	0.011	0.016	0.011	0.033
12	0.112	0.212	0.161	0.058	0.013	0.009	0.251	0.021	0.011	0.009	0.009	0.027
13	0.445	0.230	0.148	0.054	0.011	0.007	0.175	0.023	0.011	0.007	0.007	0.024
14	0.467	0.183	0.124	0.045	0.011	0.007	0.131	0.146	0.011	0.007	0.007	0.021
15	0.311	0.187	0.112	0.041	0.011	0.007	0.105	0.152	0.011	0.009	0.007	0.021
16	0.267	0.336	0.118	0.037	0.030	0.009	0.219	0.063	0.015	0.011	0.007	0.021
17	0.212	0.336	0.101	0.034	0.035	0.007	0.114	0.042	0.012	0.009	0.007	0.018
18	0.162	1.217	0.117	0.030	0.032	0.005	0.072	0.034	0.009	0.007	0.007	0.013
19	0.142	0.650	0.112	0.027	0.018	0.031	0.054	0.030	0.007	0.005	0.007	0.013
20	0.135	0.459	0.108	0.024	0.015	0.025	0.050	0.024	0.013	0.010	0.007	0.049
21	0.130	0.419	0.647	0.081	0.013	0.015	0.050	0.018	0.009	0.011	0.007	0.024
22	0.124	0.479	0.311	0.128	0.011	0.015	0.050	0.015	0.007	0.011	0.005	0.013
23	0.118	0.337	0.276	0.081	0.011	0.015	0.077	0.013	0.007	0.009	0.003	0.011
24	0.168	0.293	0.227	0.054	0.011	0.143	0.058	0.011	0.007	0.108	0.003	0.011
25	0.356	0.256	0.201	0.118	0.011	0.305	0.042	0.025	0.007	0.045	0.005	0.011
26	1.356	0.226	0.168	0.124	0.011	0.119	0.034	0.040	0.010	0.021	0.010	0.009
27	0.511	0.196	0.175	0.076	0.011	0.077	0.034	0.027	0.013	0.015	0.011	0.007
28	0.380	0.175	0.142	0.062	0.011	0.054	0.035	0.020	0.011	0.013	0.009	0.007
29	0.303	0.161	0.130	0.054	0.011	0.042	0.035	0.024	0.011	0.011	0.007	0.005
30	0.251		0.115	0.045	0.011	0.102	0.038	0.013	0.012	0.017	0.005	0.003
31	0.211		0.169		0.015		0.033	0.011		0.116		0.003
MEAN	0.2685	0.2427	0.2028	0.0831	0.0203	0.0420	0.0996	0.0368	0.0108	0.0185	0.0105	0.0167
INCHES	2.501	2.464	1.889	0.749	0.189	0.379	0.928	0.343	0.098	0.172	0.095	0.156
STA AV	1.136	1.404	1.829	1.162	0.954	0.248	1.128	0.132	0.040	0.073	0.230	0.802

NOTES: To convert CFS to IN/DAY, multiply by 0.300526. STA AV values are based on 8 yr (1967-76) record period. Part-year records included.

1976 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 166											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 16 - 17, 1976											
RG 000103			RG 000103								
7-16	0.04	0.023	7-16	1530	0.0	0.0	7-16	1530	0.107	0.0	
				1537	3.6000	0.42		1535	0.311	0.0002	
				1540	0.7999	0.46		1550	0.409	0.0013	
				1600	0.0600	0.48		1600	0.521	0.0023	
								1615	0.545	0.0040	
WATERSHED CONDITIONS: Cover of 4%, hardwoods; 6%, reforested; 67%, grass- land; 17%, cultivated; 6%, miscellaneous, contour strip cropped.									0.729	0.0053	
									1.250	0.0055	
									1.890	0.0062	
									2.140	0.0070	
									2.190	0.0079	
									2.190	0.0093	
									1.410	0.0164	
									1.070	0.0190	
									0.877	0.0207	
									0.729	0.0222	
								1800	0.388	0.0267	
								1830	0.311	0.0289	
								2100	0.182	0.0366	
								2240	0.155	0.0401	
								2400	0.142	0.0426	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01252100.



STILLWATER, OKLAHOMA WATERSHED W-1

LOCATION: Noble Co., Okla.; 15 mi. N. of Stillwater; Black Bear Creek, Arkansas River. Lat. 36 deg. 21 min. N.; Long. 97 deg. 04 min. W.

AREA: 16.70 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														STILLWATER, OKLAHOMA WATERSHED W-1															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1976	P	0.0	0.33	2.24	3.79	2.12	0.60	1.28	1.69	4.21	1.81	0.21	0.09	18.37															
	Q	0.0	0.0	0.025	0.177	0.001	0.0	0.0	0.0	0.011	0.005	0.0	0.0	0.219															
STA AV	P	0.65	1.37	1.98	2.66	4.63	3.89	3.83	2.89	4.30	2.64	1.68	1.18	31.39															
	Q	0.209	0.262	0.852	0.903	1.526	0.974	0.499	0.225	0.793	0.727	0.638	0.355	7.963															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval								2 Days		8 Days											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1976		4-20	0.055	4-20	0.049	4-20	0.086	4-20	0.122	4-19	0.133	4-19	0.140	4-18	0.140	4-12	0.162												
MAXIMUMS FOR PERIOD OF RECORD																													
		4-18	6.993	3- 8	3.516	8- 8	3.812	7-15	3.963	10- 2	4.519	7-14	5.185	11- 2	5.720	10-28	10.140												
		1957		1973		1973		1951		1959		1951		1974		1974													

NOTES: Watershed conditions: All native grass pasture located in region (R-80) of the Central Rolling Red Prairies land resource area. For map of watershed, see Hydrologic Data for Experimental Agricultural Watershed in the United States, 1964, USDA Misc. Pub. 1194, p. 37, 1-7 (revised). Precipitation data obtained from R-1 recording rain gage. Precipitation and runoff records began July 1951. STA AV precipitation data from R-3 recording rain gage record through 1964 combined with data from R-1 for 1965 through 1976. Station operated by Oklahoma Agricultural Experiment Station as of March 30, 1973. Part year records are included in STA AV values. For long-time precipitation records, see National Weather Service records at Stillwater, Oklahoma.

1976		DAILY PRECIPITATION (inches)						STILLWATER, OKLAHOMA WATERSHED W-1						
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	2	0.0	0.0	0.0	0.0	0.0	0.0	0.94	1.45	0.0	0.0	0.0	0.0	
	3	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	4	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	
	5	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.0	
	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	
	7	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	8	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	
	10	0.0	0.17	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	11	0.0	0.05	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	
	12	0.0	0.0	0.0	0.92	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	13	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	15	0.0	0.0	0.0	0.45	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	
	16	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.72	0.0	0.0	0.0	
	17	0.0	0.0	0.0	0.55	0.08	0.36	0.0	0.0	1.10	0.0	0.0	0.0	
	18	0.0	0.0	0.0	0.03	0.0	0.05	0.0	0.0	0.0	0.01	0.0	0.0	
	19	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.71	0.03	0.0	0.0	
	20	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	23	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.20	0.04	0.0	0.0	
	26	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.22	0.0	0.0	0.0	
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	
	28	0.0	0.0	0.12	0.82	0.0	0.19	0.18	0.03	0.0	0.0	0.0	0.0	
	29	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.03	0.0	0.84	0.0	0.0	
	30	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.08	0.0	0.0	
	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	
TOTAL		0.0	0.33	2.24	3.79	2.12	0.60	1.28	1.69	4.21	1.81	0.21	0.09	
STA AV		0.65	1.07	1.98	2.66	4.63	3.89	3.83	2.89	4.30	2.64	1.68	1.18	

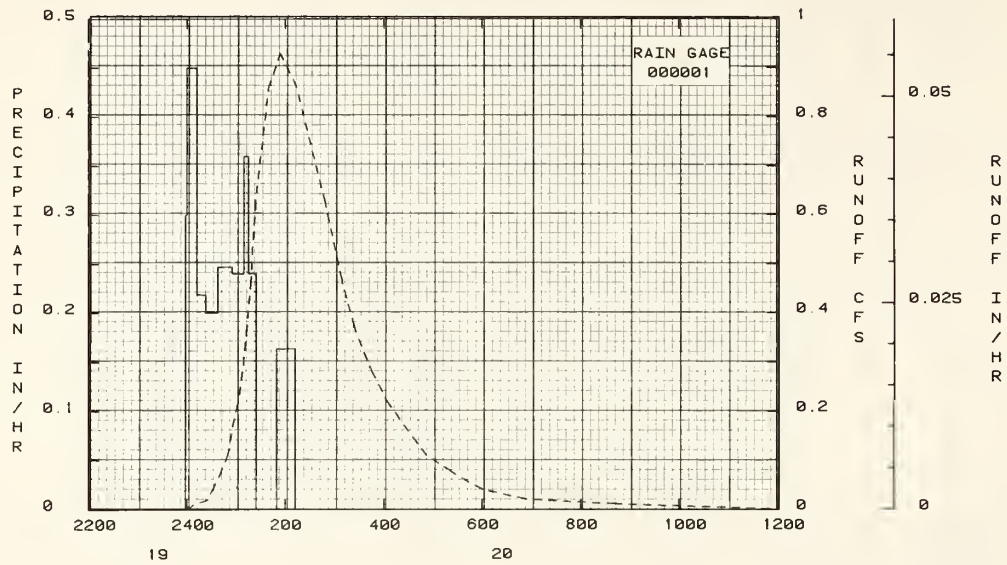
NOTES: Amounts recorded at rain gage R-1 used for current monthly totals and for runoff events. STA AV values are based on 26 yr (1951-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) STILLWATER, OKLAHOMA WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0 T	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.088	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0006	0.0041	0.0	0.0	0.0	0.0	0.0003	0.0001	0.0	0.0
INCHES	0.0	0.0	0.025	0.177	0.001	0.0	0.0	0.0	0.011	0.005	0.0	0.0
STA AV	0.209	0.262	0.852	0.903	1.526	0.974	0.499	0.225	0.793	0.727	0.638	0.355

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.425249.

1976			SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA WATERSHED W-1						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF APRIL 19 - 20, 1976												
BG 000001			BG 000001									
4-19	0.45	0.014	4-19	2358	0.0	0.0	4-19	2400	0.0	0.0		
				2400	0.3000	0.01	4-20	8	0.007	0.0000		
			4-20	12	0.4500	0.10		25	0.020	0.0003		
				23	0.2182	0.14		31	0.042	0.0004		
				38	0.2000	0.19		40	0.067	0.0009		
WATERSHED CONDITIONS: 100% of area in native grass pasture in fair condition.				55	0.2471	0.26		50	0.113	0.0018		
				110	0.2400	0.32		56	0.165	0.0026		
				115	0.3600	0.35		103	0.221	0.0040		
				125	0.2400	0.39		108	0.281	0.0052		
				150	0.0	0.39		113	0.360	0.0068		
				212	0.1636	0.45		118	0.461	0.0088		
								124	0.631	0.0121		
								140	0.862	0.0235		
								154	0.933	0.0363		
								214	0.862	0.0541		
							248	0.631	0.0792			
							310	0.461	0.0911			
							326	0.360	0.0976			
							346	0.281	0.1040			
							404	0.221	0.1084			
							425	0.165	0.1124			
							452	0.113	0.1162			
							528	0.067	0.1194			
							600	0.042	0.1211			
							654	0.020	0.1228			
							850	0.007	0.1243			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.059385.



EVENT OF APRIL 19 - 20, 1976
STILLWATER, OKLAHOMA WATERSHED W-1

STILLWATER, OKLAHOMA WATERSHED W-3

LOCATION: Noble Co., Okla.; 15 mi. N. of Stillwater; Black Bear Creek, Arkansas River. Lat. 36 deg. 21 min. N.; Long. 97 deg. 04 min. W.

AREA: 92.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														STILLWATER, OKLAHOMA WATERSHED W-3													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1976	P	0.0	0.26	2.12	3.51	1.99	0.68	1.32	1.56	3.79	1.77	0.30	0.09	17.39													
	Q	0.0	0.0	0.002	0.123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.125													
STA AV	P	0.65	1.07	1.98	2.56	4.52	3.83	3.78	2.87	4.11	2.58	1.64	1.17	30.75													
	Q	0.119	0.249	0.678	0.707	1.321	0.789	0.412	0.063	0.679	0.590	0.409	0.215	6.232													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge Date Rate	1 Hour Date Vol.	2 Hours Date Vol.	6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.																		
1976		4-20 0.046	4-20 0.041	4-20 0.070	4-20 0.116	4-19 0.119	4-19 0.121	4-18 0.121	4-13 0.123																		
MAXIMUMS FOR PERIOD OF RECORD																											
		7-15 4.739	7-15 2.896	7-15 3.486	7-15 3.796	10- 2 4.957	10- 1 5.185	10- 1 6.083	9-30 6.143																		
		1951	1951	1951	1951	1959	1959	1959	1959																		

NOTES: Watershed conditions: All native grass cover, 32% in hay meadow and 68% in pasture. The pasture was grazed using normal procedures for the year. For map of watershed, see Selected Runoff Events for Small Agricultural Watersheds in the United States, USDA, ARS, Jan. 1960, p. 37.2-6. Precipitation data obtained from R-3 recording rain gage. Precipitation and runoff records began July 1951. STA AV values are based on 26 yr (1951-76) record period. Station operated by Oklahoma Agricultural Experiment Station as of March 30, 1973. Part year records are included in STA AV values. For long-time precipitation records, see National Weather Service records at Stillwater, Oklahoma.

1976 DAILY PRECIPITATION (inches)														STILLWATER, OKLAHOMA WATERSHED W-3													
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	2	0.0	0.0	0.0	0.0	0.0	0.0	0.96	1.34	0.0	0.0	0.0	0.0														
	3	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	4	0.0	0.3	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0														
	5	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.0														
	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09														
	7	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	8	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0														
	10	0.0	0.11	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	11	0.0	0.07	0.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0														
	12	0.0	0.0	0.0	0.91	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	13	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	15	0.0	0.0	0.0	0.40	0.0	0.0	0.16	0.0	0.11	0.0	0.0	0.0														
	16	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.63	0.0	0.0	0.0														
	17	0.0	0.0	0.0	0.45	0.11	0.41	0.0	0.0	1.03	0.0	0.0	0.0														
	18	0.0	0.0	0.0	0.02	0.0	0.06	0.0	0.0	0.0	0.03	0.0	0.0														
	19	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.64	0.02	0.0	0.0														
	20	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	23	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.92	0.04	0.0	0.0														
	26	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.17	0.0	0.0	0.0														
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0														
	28	0.0	0.0	0.11	0.75	0.0	0.21	0.20	0.04	0.0	0.0	0.0	0.0														
	29	0.0	0.3	0.18	0.0	0.0	0.0	0.0	0.04	0.0	0.81	0.0	0.0														
	30	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.09	0.0	0.0														
	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0														
TOTAL		0.0	0.26	2.12	3.51	1.99	0.68	1.32	1.56	3.79	1.77	0.30	0.09														
STA AV		0.65	1.07	1.98	2.56	4.52	3.83	3.78	2.87	4.11	2.58	1.64	1.17														

NOTES: Amounts recorded at rain gage R-3 used for current monthly totals and for runoff events. STA AV values are based on 26 yr (1951-76) record period.

STILLWATER, OKLAHOMA WATERSHED #3												
MEAN DAILY DISCHARGE (cfs)												
1976	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Day												
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.460	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0003	0.0159	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.002	0.123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.119	0.249	0.678	0.707	1.321	0.789	0.412	0.063	0.679	0.590	0.409	0.215

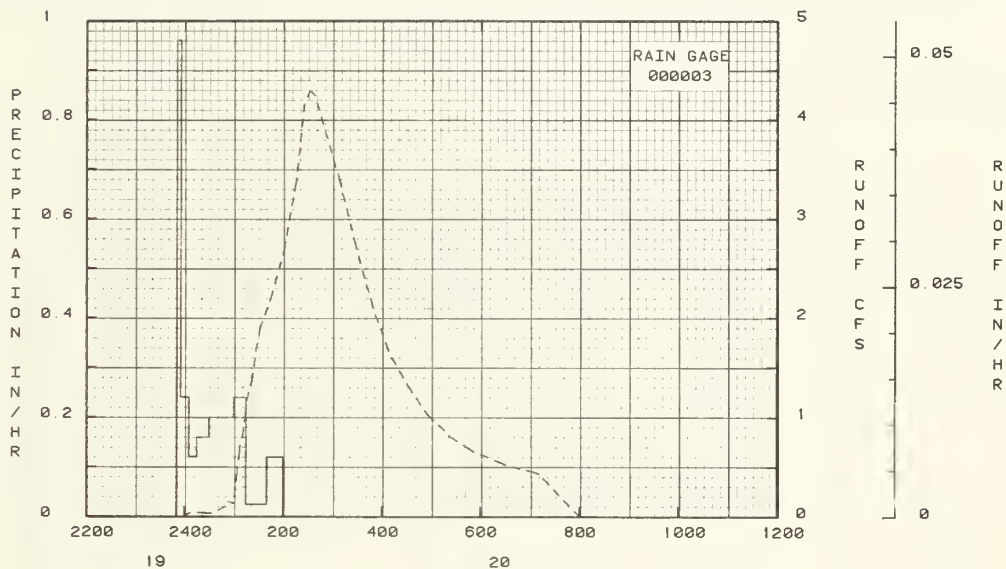
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.258714.

1976 SELECTED RUNOFF EVENT STILLWATER, OKLAHOMA WATERSHED #3											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 19 - 20, 1976											
RG 000003			RG 000003								
4-19	0.48	0.002	4-19	2350	0.0	0.0	4-19	2400	0.014	0.0	
				2355	0.9600	0.08	4-20	7	0.039	0.0000	
			4-20	5	0.2400	0.12		16	0.037	0.0001	
				15	0.1200	0.14		33	0.028	0.0002	
				30	0.1600	0.18		49	0.103	0.0004	
WATERSHED CONDITIONS:											
100% of area in native				100	0.2000	0.28		53	0.146	0.0005	
grass; 32% in hay meadow in				115	0.2400	0.34		100	0.131	0.0006	
good condition, 46% in pas-				140	0.0240	0.35		105	0.505	0.0009	
ture in fair condition, and				200	0.1200	0.39		108	0.721	0.0013	
22% in pasture in poor								112	0.877	0.0018	
condition.											
								115	1.093	0.0024	
								118	1.254	0.0030	
								122	1.373	0.0039	
								127	1.668	0.0053	
								132	1.891	0.0069	
								145	2.199	0.0117	
								201	2.687	0.0187	
								216	3.413	0.0269	
								225	4.165	0.0330	
								232	4.294	0.0384	
								238	4.238	0.0430	
								308	3.391	0.0635	
								329	2.686	0.0750	
								349	2.101	0.0836	
								408	1.661	0.0900	
								432	1.305	0.0964	
								456	1.023	0.1014	
								524	0.796	0.1060	
								552	0.651	0.1096	
								630	0.525	0.1136	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01078.

1976 SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA WATERSHED W-3							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 19 - 20, 1976 (CONTINUED)										
							4-20	710	0.430	0.1171
								800	0.0	0.1190
								850	0.0	0.1190

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01078.



EVENT OF APRIL 19 - 20, 1976
STILLWATER, OKLAHOMA WATERSHED W-3

RIESEL (WACO), TEXAS WATERSHED C

LOCATION: McLennan Co., Texas; 14 mi. ESE of Waco; Brazos River Basin. Lat. 31 deg. 31 min. 11 sec. N.; Long. 96 deg. 53 min. 34 sec. W.

AREA: 579.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								RIESEL (WACO), TEXAS WATERSHED C									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.16	1.27	2.70	7.75	6.65	1.75	6.82	0.10	5.34	6.94	1.71	3.26	44.45			
	Q	0.0	0.0	0.0	2.022	1.741	0.257	1.577	0.0	0.0	2.362	0.062	1.787	9.807			
STA AV	P	1.93	2.64	2.23	4.05	4.03	3.24	1.95	2.57	3.46	3.49	2.97	2.38	34.95			
	Q	0.498	0.638	0.621	1.094	0.923	0.609	0.249	0.165	0.332	0.567	0.521	0.600	6.817			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
	Maximum Discharge Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	Maximum Volume for Selected Time Interval 6 Hours Date		Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.
1976	5-31	0.681	5-31	0.591	5-31	0.921	10- 4	1.545	10- 4	1.840	10- 4	1.905	10- 4	1.916	10- 2	1.918	
MAXIMUMS FOR PERIOD OF RECORD																	
	3-29 1965	1.580	3-29 1965	1.500	3-29 1965	2.520	3-29 1965	3.550	3-29 1965	3.800	3-29 1965	4.480	9- 7 1942	4.780	4-19 1957	8.760	

NOTES: Watershed conditions: 76% pasture; 15% row grain sorghum; 4% fall planted oats; 2% gravel and paved roads; 3% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.4-6. Precipitation and runoff records began Feb. 1938; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 5, 14 and 20. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976 DAILY AIR TEMPERATURE (degrees F)														RIESEL (WACO), TEXAS WATERSHED C	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min		
1	72 49	70 35	81 48	78 44	71 55	89 60	93 70	96 69	87 68	88 58	66 44	58 27			
2	72 43	82 35	82 63	79 44	82 49	88 67	93 69	98 73	77 69	88 61	74 44	59 29			
3	45 31	80 41	80 61	78 64	82 48	87 65	93 71	94 72	87 71	86 61	75 40	69 29			
4	46 24	79 54	84 67	77 64	80 56	88 67	93 70	92 66	94 71	85 67	70 50	68 35			
5	44 29	75 41	81 45	80 55	77 59	87 65	85 68	97 70	93 75	78 58	67 38	66 45			
6	61 40	47 31	54 41	73 55	83 56	87 65	80 68	98 71	93 68	70 45	75 43	57 45			
7	60 21	51 26	51 44	73 58	82 54	88 62	87 68	101 73	94 68	70 49	75 50	48 27			
8	38 12	73 33	63 44	74 50	73 56	87 65	88 71	103 75	94 70	62 44	76 41	62 31			
9	53 19	78 42	53 39	77 55	73 22	88 65	80 71	103 72	93 70	78 39	75 46	63 34			
10	69 41	76 60	69 39	76 56	80 56	87 63	80 69	102 73	90 65	86 54	77 53	64 52			
11	69 43	74 58	70 56	76 62	86 65	92 65	85 73	99 70	87 64	87 53	78 52	63 33			
12	73 34	74 51	76 61	80 55	83 60	90 70	87 70	95 69	89 64	87 52	52 38	50 36			
13	74 53	74 57	77 35	79 63	82 61	89 69	88 88	98 71	89 59	81 60	46 30	54 41			
14	69 34	76 55	58 39	78 66	77 54	88 69	88 82	97 70	90 68	82 58	36 30	54 41			
15	65 63	76 60	77 36	79 62	79 54	91 71	87 70	95 70	90 67	80 65	46 28	53 43			
16	64 39	77 62	68 38	77 50	82 62	92 68	87 68	97 70	91 68	65 52	42 32	65 40			
17	70 34	78 59	68 36	76 68	83 59	90 72	86 69	96 69	91 69	67 45	50 34	65 39			
18	74 36	77 46	76 44	76 54	79 52	91 74	91 72	96 72	91 68	73 44	63 40	61 50			
19	74 34	78 44	79 61	77 63	79 54	92 69	91 69	95 69	90 71	73 42	59 46	64 55			
20	66 40	81 59	89 67	78 55	78 63	84 61	92 69	94 68	91 67	62 34	71 50	65 36			
21	69 24	76 41	83 44	78 51	82 63	92 61	91 70	94 66	82 61	64 40	71 43	45 23			
22	70 35	59 32	89 44	82 58	85 64	90 72	91 71	93 69	83 55	65 44	72 34	51 33			
23	77 39	75 32	76 48	80 64	86 66	93 72	92 70	94 69	88 59	74 60	57 39	58 30			
24	73 53	74 33	65 53	86 69	90 64	94 71	93 71	96 69	88 63	72 61	64 48	57 33			
25	66 48	70 46	80 64	83 83	90 70	93 65	94 73	97 67	90 65	66 51	64 55	56 49			
26	74 31	78 43	81 64	84 50	85 62	88 74	94 70	96 70	93 67	74 40	81 54	66 30			
27	53 22	77 48	79 63	78 60	84 61	90 70	93 69	98 70	93 62	59 47	80 36	69 27			
28	61 26	76 50	81 61	80 62	82 53	89 71	94 71	98 71	83 58	53 41	36 24	67 39			
29	71 37	79 56	88 45	80 58	88 60	92 69	95 70	96 69	76 58	48 42	81 19	68 32			
30	74 37		85 47	69 54	88 70	92 69	95 72	97 68	85 56	66 38	56 22	67 43			
31	70 39		72 40		89 62		95 71	87 69		67 43		67 16			
AV.	65 36	74 46	75 50	78 53	82 58	90 68	90 71	97 70	89 65	73 50	65 40	61 36			
MEAN	50.5	59.9	62.3	68.3	69.9	78.6	80.4	83.3	77.1	61.4	52.3	48.5			
STA AV	56 38	62 40	69 47	77 56	83 63	89 70	93 72	93 72	88 66	81 57	68 46	61 39			

NOTES: Temperature data taken daily with maximum and minimum thermometers. Readings were taken at 0800 of the day shown. STA AV values are based on 38 yr (1939-76) period.

1976	DAILY PRECIPITATION (inches)						RIESEL (WACO), TEXAS WATERSHED C					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.89	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.92	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.38	0.0	0.0	0.0
4	0.0	0.0	0.42	0.26	0.0	0.0	1.65	0.0	0.0	3.46	0.0	0.0
5	0.0	0.15	0.0	0.57	1.25	0.0	0.08	0.0	0.0	0.99	0.0	0.91
6	0.0	0.0	0.23	0.0	0.0	0.0	2.33	0.0	0.0	0.0	0.0	0.24
7	0.0	0.0	0.54	0.49	0.29	0.0	0.01	0.0	0.0	0.13	0.0	0.0
8	0.0	0.0	0.35	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	1.54
11	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.57
12	0.0	0.0	0.0	0.0	0.60	0.0	0.02	0.0	0.0	0.0	0.12	0.0
13	0.0	0.0	0.10	0.0	0.04	0.0	0.08	0.0	0.0	0.0	0.15	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	1.38	0.0 T	0.23	0.0
15	0.0	0.0	0.0	0.69	0.0	0.32	0.95	0.0	0.0	0.03	0.17	0.0
16	0.0	0.0	0.0	0.52	0.0	0.0	1.04	0.04	0.0	0.15	0.0	0.0
17	0.0	0.85	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	3.34	0.0	0.01	0.0	0.0	0.0	0.0	0.01	0.0
19	0.05	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.15	0.23	0.39	0.0
20	0.0	0.27	0.0	0.47	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.01	0.0	0.0	0.0	0.0
23	0.0	0.0	0.30	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.05	0.0	0.68	0.10	0.0	0.07	0.0	0.0	0.0	0.12	0.0	0.0
25	0.04	0.0	0.0	0.0	0.95	1.17	0.03	0.0	0.0	0.0	0.64	0.0
26	0.0	0.0	0.0	0.0	0.04	0.01	0.0	0.0	0.54	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0	1.04	0.05	0.0	0.0
29	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.05	0.0	1.78	0.0	0.0
30	0.0	0.0	0.03	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.02	0.0	0.0	2.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.16	1.27	2.70	7.75	6.65	1.75	6.82	0.10	5.34	6.94	1.71	3.26
STA AV	1.93	2.64	2.23	4.05	4.03	3.24	1.95	2.57	3.46	3.49	2.97	2.38

NOTES: Precipitation values are Thiessen weighted average of rain gages 5, 14, and 20. Records began Feb. 1938; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV values are based on 31 yr (1938-July 1943, March 1949-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976	MEAN DAILY DISCHARGE (cfs)						RIESEL (WACO), TEXAS WATERSHED C					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.053	5.855	0.0	0.0	0.0	0.0	0.031	0.004
2	0.0	0.0	0.0	0.0	0.013	0.317	0.0	0.0	0.0	0.0	0.010	0.002
3	0.0	0.0	0.0	0.0	0.003	0.032	0.0	0.0	0.0	0.0	0.004	0.002
4	0.0	0.0	0.0	0.0	0.0 T	0.008	0.019	0.0	0.0	10.824	0.002	0.001
5	0.0	0.0	0.0	0.0	3.637	0.001	0.011	0.0	0.0	35.587	0.001	0.163
6	0.0	0.0	0.0	0.0	2.549	0.0 T	22.615	0.0	0.0	0.211	0.001	8.260
7	0.0	0.0	0.0	0.0	0.208	0.0	0.745	0.0	0.0	0.020	0.0 T	0.536
8	0.0	0.0	0.0	0.0	0.210	0.0 T	0.062	0.0	0.0	0.005	0.0	0.136
9	0.0	0.0	0.0	0.0	0.070	0.0	0.013	0.0	0.0	0.001	0.0	0.059
10	0.0	0.0	0.0	0.0	0.425	0.0	0.010	0.0	0.0	0.0	0.0	3.889
11	0.0	0.0	0.0	0.0	0.112	0.0	0.006	0.0	0.0	0.0	0.0 T	28.729
12	0.0	0.0	0.0	0.0	0.066	0.0	0.001	0.0	0.0	0.0	0.0 T	1.001
13	0.0	0.0	0.0	0.0	5.738	0.0	0.0 T	0.0	0.0	0.0	0.009	0.266
14	0.0	0.0	0.0	0.0	0.297	0.0	0.0 T	0.0	0.0	0.0	0.011	0.129
15	0.0	0.0	0.0	0.0	0.066	0.0	1.203	0.0	0.0	0.0	0.008	0.084
16	0.0	0.0	0.0	0.121	0.023	0.0	7.709	0.0	0.0	0.0	0.005	0.053
17	0.0	0.0	0.0	0.0	0.006	0.0	5.531	0.0	0.0	0.0	0.005	0.035
18	0.0	0.0	0.0	31.077	0.003	0.0	0.352	0.0	0.0	0.0	0.004	0.027
19	0.0	0.0	0.0	8.049	0.001	0.0	0.065	0.0	0.0	0.0	0.010	0.026
20	0.0	0.0	0.0	3.704	0.001	0.0	0.012	0.0	0.0	0.0	0.009	0.016
21	0.0	0.0	0.0	0.174	0.002	0.0	0.003	0.0	0.0	0.0	0.005	0.009
22	0.0	0.0	0.0	0.024	0.0 T	0.0	0.001	0.0	0.0	0.0	0.003	0.006
23	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.004
24	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.004
25	0.0	0.0	0.0	0.001	0.005	0.0	0.0	0.0	0.0	0.0	0.157	0.034
26	0.0	0.0	0.0	0.001	0.002	0.0	0.0	0.0	0.0	0.0	1.017	0.002
27	0.0	0.0	0.0	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.156	0.003
28	0.0	0.0	0.0	0.004	0.0 T	0.0	0.0	0.0	0.0	0.0	0.035	0.004
29	0.0	0.0	0.0	5.751	0.0 T	0.0	0.0	0.0	0.0	9.481	0.013	0.003
30	0.0	0.0	0.0	0.274	0.0	0.0	0.0	0.0	0.0	1.203	0.006	0.003
31	0.0	0.0	0.0	28.832	0.0	0.0	0.0	0.0	0.0	0.132	0.0	0.0 T
MEAN	0.0	0.0	0.0	1.6396	1.3660	0.2084	1.2373	0.0	0.0	1.8536	0.0503	1.4019
INCHES	0.0	0.0	0.0	2.022	1.741	0.257	1.577	0.0	0.0	2.362	0.062	1.787
STA AV	0.438	0.638	0.621	1.094	0.923	0.609	0.249	0.165	0.332	0.567	0.521	0.600

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.041108. Records began Feb. 1938; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV values are based on 31 yr (1938-July 1943, March 1949-76) record period.

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED C							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 18, 1976										
RG 000014			RG 000014							
4-18	0.0	0.0	4-18	35	0.0	0.0	4-18	314	0.013	0.0
				39	0.9000	0.06		319	0.031	0.0
				45	0.6000	0.12		323	0.077	0.0000
				100	0.0800	0.14		324	0.119	0.0000
				130	0.1000	0.19		326	0.166	0.0000
WATERSHED CONDITIONS:										
76% pasture; 15% row grain sorghum; 4% fall planted oats; 2% gravel and paved roads; 3% other. Approx. 90% of other is Johnson-grass and weeds in Conservation reserve, neither tilled nor grazed.										
				159	0.1034	0.24		329	0.309	0.0000
				210	0.3273	0.30		331	0.385	0.0001
				229	0.2211	0.37		333	0.444	0.0001
				234	0.6000	0.42		335	0.566	0.0001
				239	0.3600	0.45		339	1.055	0.0002
				259	0.2700	0.54		341	1.703	0.0003
				304	0.9500	0.62		343	3.019	0.0004
				314	0.2400	0.66		345	5.452	0.0006
				319	0.7200	0.72		347	8.053	0.0010
				324	0.8400	0.79		349	10.699	0.0016
				329	1.2000	0.89		351	13.001	0.0023
				334	0.7200	0.95		353	14.434	0.0030
				339	1.2000	1.05		355	16.189	0.0039
				344	0.9600	1.13		357	17.651	0.0049
				359	0.0800	1.15		359	18.973	0.0059
				414	0.2800	1.22		401	19.975	0.0070
				429	0.1200	1.25		404	20.467	0.0088
				444	0.2000	1.30		406	20.715	0.0099
				459	0.3600	1.39		409	20.765	0.0117
				529	0.0800	1.43		413	20.122	0.0141
				544	0.2000	1.48		417	19.208	0.0163
				559	0.4000	1.58		421	17.695	0.0184
				629	0.2200	1.69		425	16.398	0.0204
				659	0.1000	1.74		427	15.859	0.0213
				729	0.2600	1.87		429	15.453	0.0222
				744	0.2400	1.93		431	15.655	0.0231
				759	0.1200	1.96		433	16.822	0.0240
				859	0.0700	2.03		435	18.973	0.0250
				959	0.0800	2.11		437	21.630	0.0262
				1029	0.2800	2.25		442	28.394	0.0297
				1059	0.1000	2.30		445	32.594	0.0324
				1159	0.0200	2.32		449	38.415	0.0364
				1229	0.1600	2.40		454	43.569	0.0423
								459	48.275	0.0488
								504	53.148	0.0560
								509	57.411	0.0639
								514	61.923	0.0725
								519	65.861	0.0816
								524	67.899	0.0911
								529	69.242	0.1009
								534	69.859	0.1108
								539	69.242	0.1208
								549	67.657	0.1403
								559	65.624	0.1593
								609	63.062	0.1777
								619	60.911	0.1954
								629	59.690	0.2126
								700	56.243	0.2639
								729	54.886	0.3099
								800	53.351	0.3578
								830	52.745	0.4032
								900	51.551	0.4479
								920	49.605	0.4768
								940	46.422	0.5042
								1000	43.135	0.5298
								1020	40.600	0.5537
								1050	38.733	0.5876
								1109	38.336	0.6085
								1130	37.863	0.6314
								1150	37.317	0.6528
								1159	37.162	0.6624
								1209	37.240	0.6730
								1219	37.706	0.6837
								1229	37.472	0.6944
								1239	36.777	0.7050

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001713.

RIESEL (WACO), TEXAS WATERSHED D

LOCATION: McLennan Co., Texas; 14 mi. ESE of Waco; Brazos River Basin. Lat. 31 deg. 30 min. 38 sec. N.; Long. 96 deg. 53 min. 22 sec. W.

AREA: 1110.00 acres 1.73 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							RIESEL (WACO), TEXAS WATERSHED D										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.17	1.35	2.88	8.21	7.00	1.88	6.59	0.10	5.48	7.08	1.79	3.35	45.92			
	Q	0.0	0.0	0.001	1.623	1.895	0.205	1.347	0.0	0.008	3.385	0.041	2.010	10.715			
STA AV	P	1.99	2.63	2.29	4.03	3.95	3.29	1.95	2.47	3.42	3.35	2.90	2.39	34.67			
	Q	0.508	0.617	0.645	1.109	1.002	0.613	0.256	0.183	0.332	0.598	0.508	0.590	6.960			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		5-31	0.843	5-31	0.767	10-4	1.213	10-4	2.625	10-4	2.929	10-4	2.988	10-4	2.998	10-1	2.999
MAXIMUMS FOR PERIOD OF RECORD																	
		3-29	2.110	3-29	1.930	3-29	3.150	3-29	4.590	3-29	4.880	3-29	5.630	3-29	5.690	4-19	9.660
		1965		1965		1965		1965		1965		1965		1965		1957	

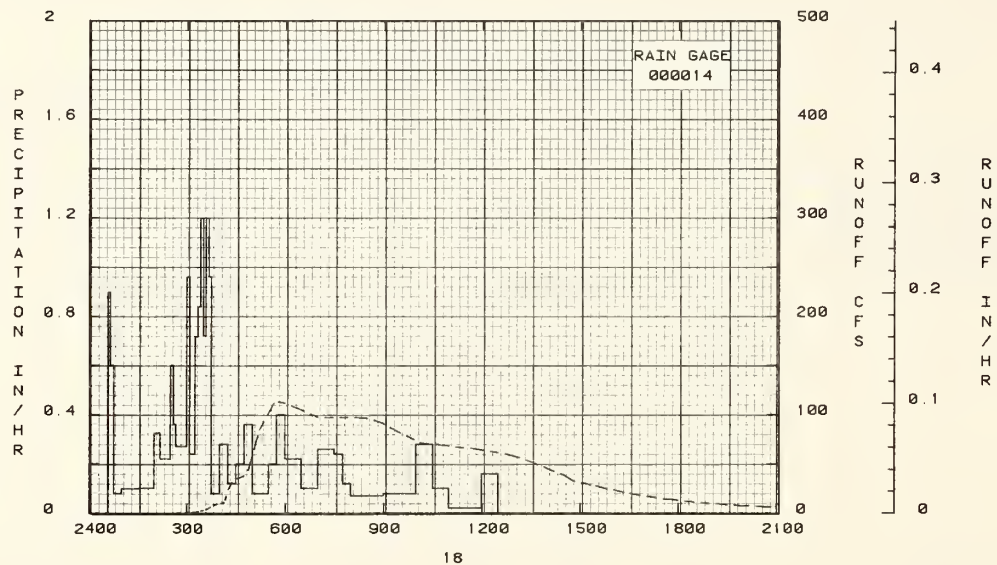
NOTES: Watershed conditions: 65% pasture; 13% row grain sorghum; 9% fall planted oats; 2% gravel and paved roads; 11% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.4-6. Precipitation and runoff records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. Precipitation data from Thiessen method using rain gages 5, 14, 20 and 26A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED D	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.85	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.95	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.37	0.0	0.0	0.0	
4	0.0	0.0	0.46	0.31	0.0	0.0	0.0	1.76	0.0	0.0	3.43	0.0	0.0	
5	0.0	0.15	0.0	0.55	1.29	0.0	0.0	0.15	0.0	0.0	1.02	0.0	0.85	
6	0.0	0.0	0.23	0.0	0.0	0.0	0.0	1.83	0.0	0.0	0.0	0.0	0.36	
7	0.0	0.0	0.57	0.53	0.30	0.0	0.0	0.03	0.0	0.0	0.16	0.0	0.0	
8	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	1.59	
11	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.59	
12	0.0	0.0	0.0	0.0	0.62	0.0	0.08	0.0	0.0	0.0	0.0	0.14	0.0	
13	0.0	0.0	0.11	0.0	0.04	0.0	0.09	0.0	0.0	0.0	0.0	0.18	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	1.41	0.02	0.25	0.0	0.0	T
15	0.0	0.0	0.0	0.75	0.0	0.33	0.98	0.0	0.0	0.07	0.09	0.0	0.0	
16	0.0	0.0	0.0	0.60	0.0	0.0	1.01	0.03	0.0	0.12	0.0	0.0	0.0	
17	0.0	0.93	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	3.47	0.0	0.01	0.0	0.0	0.0	0.0	0.01	0.0	0.0	
19	0.05	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.15	0.23	0.46	0.0	0.0	
20	0.0	0.27	0.0	0.51	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.03	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.38	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.03	0.0	0.64	0.08	0.0	0.06	0.0	0.0	0.0	0.12	0.0	0.0	0.0	
25	0.07	0.0	0.0	0.0	0.0	1.06	1.25	0.03	0.0	0.0	0.66	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.05	0.02	0.0	0.0	0.54	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.87	0.0	0.0	0.0	0.0	1.13	0.05	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.04	0.0	1.86	0.0	0.0	0.0	
30	0.0	0.09	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.02	0.0	2.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL		0.17	1.35	2.88	8.21	7.00	1.88	6.59	0.10	5.48	7.08	1.79	3.39	
STA AV		1.99	2.63	2.29	4.03	3.95	3.29	1.95	2.47	3.42	3.35	2.90	2.39	

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 5, 14, 20, and 26A. Records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 32 yr (1937-July 1943, March 1949-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED D						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)
EVENT OF APRIL 18, 1976 (CONTINUED)									
4-18	744	0.2400	1.93	4-18	547	113.427	0.0985		
	759	0.1200	1.96		559	111.645	0.1186		
	859	0.0700	2.03		621	106.921	0.1544		
	959	0.0800	2.11		659	97.274	0.2122		
	1029	0.2800	2.25		809	97.274	0.3136		
	1059	0.1000	2.30		829	96.372	0.3424		
	1159	0.0200	2.32		900	90.669	0.3856		
	1229	0.1600	2.40		930	81.051	0.4239		
					1009	71.208	0.4681		
					1059	67.923	0.5199		
					1149	65.089	0.5694		
					1249	59.400	0.6251		
					1309	56.125	0.6423		
					1329	52.307	0.6584		
					1359	45.174	0.6802		
					1429	38.521	0.6989		
					1449	32.065	0.7094		
					1509	30.193	0.7186		
					1519	28.860	0.7230		
					1529	27.445	0.7272		
					1549	24.829	0.7350		
					1609	22.731	0.7421		
					1620	21.286	0.7457		
					1632	19.961	0.7494		
					1650	18.229	0.7545		
					1719	15.719	0.7618		
					1759	13.036	0.7704		
					1829	11.253	0.7758		
					1929	8.658	0.7847		
					2009	7.399	0.7895		
					2049	6.473	0.7936		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000893.



EVENT OF APRIL 18, 1976
RIESEL (WACO), TEXAS WATERSHED D

RIESEL (WACO), TEXAS WATERSHED G

LOCATION: McLennan and Falls Counties, Texas; 16 mi. S.E. of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 59 sec. N.; Long. 96 deg. 52 min. 06 sec. W.

AREA: 4360.00 acres 6.64 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED G	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P	0.16	1.11	2.85	8.23	7.23	1.99	5.89	0.08	5.10	5.97	1.67	3.12	43.42	
	Q	0.0	0.0	0.0	1.620	1.421	0.614	0.997	0.0	0.008	1.351	0.049	1.476	7.736	
STA AV	P	2.14	2.67	2.27	3.82	3.67	3.67	2.23	2.76	3.63	3.57	2.92	2.61	36.17	
	Q	0.705	0.740	0.705	0.802	0.749	0.914	0.278	0.148	0.342	0.504	0.557	0.641	7.085	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		5-31	0.219	5-31	0.216	5-31	0.420	5-31	1.016	5-31	1.238	5-31	1.290	4-18	1.367
														4-14	1.483
MAXIMUMS FOR PERIOD OF RECORD															
		3-29	0.950	3-29	0.910	3-29	1.720	3-29	3.390	3-29	3.940	3-29	4.030	3-29	4.740
		1965		1965		1965		1965		1965		1965		1965	1940

NOTES: Watershed conditions: 40% pasture; 1% cotton; 4% corn; 12% fall planted small grain, largely oats; 20% sorghum; 2% gravel and paved roads; 21% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.4-6. Precipitation and runoff records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. Precipitation data from Thiessen method using rain gages 5, 14, 20, 26A, 30A, 43A, 48A, 56A, 65A, 70, 74A, 84A, and 89. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED G	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.45	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	1.00	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.35	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.38	0.49	0.0	0.03	1.48	0.0	0.0	2.54	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.52	1.56	0.01	0.04	0.0	0.0	0.91	0.0	0.0		
6	0.0	0.0	0.0	0.24	0.0	0.0	0.0	1.22	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.51	0.54	0.37	0.0	0.03	0.0	0.0	0.16	0.0	0.0		
8	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.03	0.0	0.0	0.0	0.14	0.0		
13	0.0	0.0	0.0	0.13	0.0	0.04	0.0	0.04	0.0	0.0	0.0	0.17	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.98	0.01	0.26	0.05		
15	0.0	0.0	0.0	0.0	0.73	0.0	0.34	1.03	0.0	0.0	0.07	0.07	0.0		
16	0.0	0.0	0.0	0.0	0.46	0.0	0.0	1.26	0.03	0.0	0.10	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0 T	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	3.36	0.0	0.01	0.0	0.0	0.0	0.0	0.0 T	0.0		
19	0.06	0.0	0.0	0.0	0.0 T	0.0	0.05	0.0	0.0	0.23	0.21	0.45	0.0		
20	0.0	0.0	0.23	0.0	0.48	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.01	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.43	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.02	0.0	0.0	0.63	0.08	0.0	0.05	0.0	0.0	0.0	0.11	0.0	0.0		
25	0.08	0.0	0.0	0.0	0.0	1.33	1.27	0.01	0.0	0.0	0.0 T	0.58	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.06	0.02	0.0	0.0	0.48	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	1.06	0.0	0.0	0.0	0.0	1.53	0.08	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.03	0.0	1.78	0.0	0.0		
30	0.0	0.0	0.08	0.0	0.0	0.05	0.0	0.0	0.01	0.0	0.0	0.0	0.0		
31	0.02		0.0			2.69		0.0	0.0		0.0		0.0		
TOTAL		0.15	1.11	2.85	8.73	7.23	1.99	5.89	0.09	5.10	5.97	1.67	3.12		
STA AV		2.14	2.67	2.27	3.82	3.67	3.87	2.23	2.76	3.63	3.57	2.92	2.61		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 5, 14, 20, 26A, 30A, 43A, 48A, 56A, 65A, 70, 74A, 84A, and 89. Records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. STA AV values are based on 24 yr record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED G												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.80	109.50	0.0	0.0	0.0	0.0	0.48	0.06
2	0.0	0.0	0.0	0.0	0.38	2.02	0.0	0.0	0.0	0.0	0.24	0.05
3	0.0	0.0	0.0	0.0	0.22	0.42	0.0	0.0	0.0	0.0	0.10	0.05
4	0.0	0.0	0.0	0.0	0.06	0.22	1.22	0.0	0.0	1.05	0.05	0.04
5	0.0	0.0	0.0	0.0	46.91	0.09	0.19	0.0	0.0	187.70	0.03	0.27
6	0.0	0.0	0.0	0.0	30.62	0.03	36.01	0.0	0.0	2.36	0.02	21.70
7	0.0	0.0	0.0	0.05	6.45	0.02	4.44	0.0	0.0	0.25	0.02	3.61
8	0.0	0.0	0.0	0.07	3.64	0.02	0.39	0.0	0.0	0.06	0.01	1.07
9	0.0	0.0	0.0	0.00	0.94	0.00	0.08	0.0	0.0	0.01	0.01	0.53
10	0.0	0.0	0.0	0.0	1.54	0.00	0.03	0.0	0.0	0.00	0.02	8.81
11	0.0	0.0	0.0	0.0	0.75	0.0	0.06	0.0	0.0	0.0	0.02	211.22
12	0.0	0.0	0.0	0.0	0.34	0.0	0.01	0.0	0.0	0.0	0.04	10.33
13	0.0	0.0	0.0	0.0	17.82	0.0	0.00	0.0	0.0	0.0	0.18	3.56
14	0.0	0.0	0.0	0.0	2.00	0.0	0.0	0.0	0.0	0.0	0.23	2.42
15	0.0	0.0	0.0	0.0	0.43	0.0	7.57	0.0	0.0	0.0	0.08	1.97
16	0.0	0.0	0.0	0.91	0.14	0.01	78.83	0.0	0.0	0.0	0.05	1.26
17	0.0	0.0	0.0	0.31	0.03	0.13	49.81	0.0	0.0	0.0	0.03	0.84
18	0.0	0.0	0.0	158.69	0.00	0.04	3.65	0.0	0.0	0.0	0.03	0.64
19	0.0	0.0	0.0	89.02	0.00	0.01	0.82	0.0	0.0	0.0	0.18	0.73
20	0.0	0.0	0.0	22.32	0.00	0.0	0.19	0.0	0.0	0.00	0.49	0.63
21	0.0	0.0	0.0	1.95	0.00	0.0	0.05	0.0	0.0	0.00	0.19	0.31
22	0.0	0.0	0.0	0.27	0.01	0.0	0.05	0.0	0.0	0.0	0.08	0.26
23	0.0	0.0	0.0	0.06	0.09	0.0	0.02	0.0	0.0	0.0 T	0.05	0.23
24	0.0	0.0	0.0	0.04	0.02	0.0	0.00	0.0	0.0	0.00	0.04	0.21
25	0.0	0.0	0.0	0.01	12.13	0.43	0.0	0.0	0.0	0.01	0.37	0.21
26	0.0	0.0	0.0	0.00	5.84	0.03	0.0	0.0	0.0	0.00	4.23	0.16
27	0.0	0.0	0.0	0.00	0.52	0.00	0.0	0.0	0.0	0.0 T	1.31	0.14
28	0.0	0.0	0.0	0.93	0.11	0.0	0.0	0.0	1.48	0.0 T	0.30	0.11
29	0.0	0.0	0.0	57.31	0.14	0.0	0.0	0.0	0.02	44.92	0.12	0.09
30	0.0	0.0	0.0	3.05	0.03	0.0	0.0	0.0	0.0	10.70	0.07	0.09
31	0.0	0.0	0.0		129.44		0.0	0.0		1.56		0.05
MEAN	0.0	0.0	0.0	11.165	8.432	3.766	5.917	0.0	0.050	8.020	0.302	8.763
INCHES	0.0	0.0	0.0	1.820	1.421	0.614	0.997	0.0	0.008	1.351	0.049	1.476
STA AV	0.705	0.740	0.705	0.802	0.749	0.914	0.278	0.148	0.342	0.504	0.557	0.641

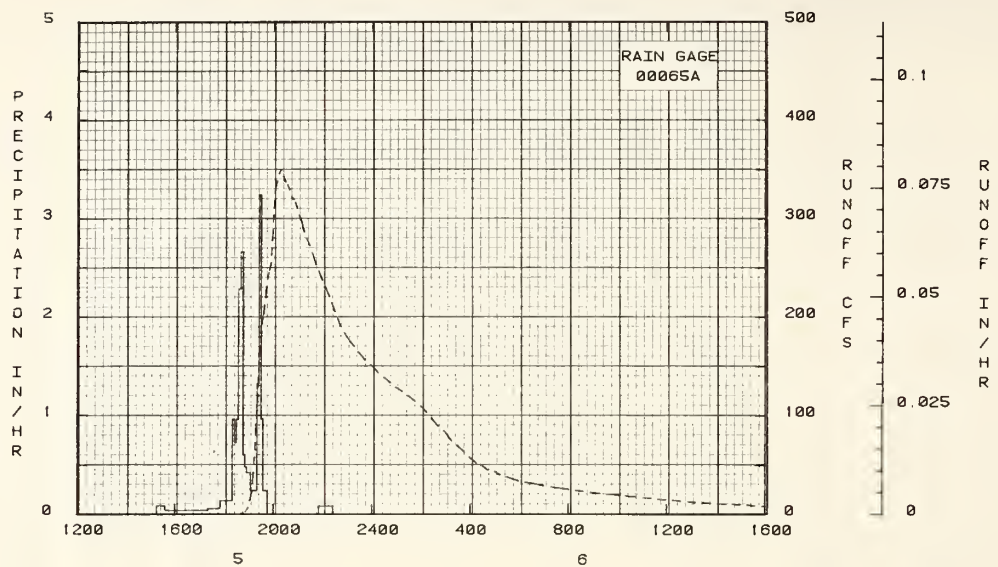
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.005434. Records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. STA AV values are based on 24 yr record period.

1976	SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED G								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Fainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 5 - 6, 1976												
RG 00055A			RG 00065A									
5- 5	0.17	0.000	5- 5	1515	0.0	0.0	5- 5	1430	0.068	0.0		
				1535	0.0900	0.03		1500	0.071	0.0000		
				1620	0.0400	0.06		1528	0.078	0.0000		
				1720	0.0400	0.10		1558	0.084	0.0000		
				1750	0.0600	0.13		1628	0.086	0.0000		
WATERSHED CONDITIONS: 40% pasture; 1% cotton; 4% corn; 12% fall planted oats; 20% sorghum; 2% gravel and paved roads; 21% other. Approx. 90% of other is John- songrass and weeds in conser- vation reserve, neither tilled nor grazed.				1820	0.1400	0.20		1727	0.094	0.0001		
				1825	0.9600	0.28		1743	0.096	0.0001		
				1830	0.7200	0.34		1758	0.101	0.0001		
				1835	0.9600	0.42		1804	0.106	0.0001		
				1840	2.2800	0.61		1807	0.111	0.0001		
				1847	2.6571	0.92		1812	0.122	0.0001		
				1850	0.6000	0.95		1818	0.152	0.0001		
				1855	0.4800	0.99		1824	0.170	0.0001		
				1905	0.4200	1.06		1827	0.212	0.0001		
				1920	0.2400	1.12		1832	0.415	0.0001		
				1925	1.3200	1.23		1837	0.572	0.0001		
				1930	3.2400	1.50		1842	0.912	0.0001		
				1935	0.9600	1.58		1847	1.432	0.0001		
				1945	0.2400	1.62		1852	2.741	0.0002		
				1950	0.0	1.62		1859	6.650	0.0003		
				2150	0.0	1.62		1903	15.081	0.0004		
				2225	0.0857	1.67		1908	23.592	0.0008		
								1912	43.000	0.0013		
								1918	91.000	0.0028		
								1923	131.000	0.0049		
								1927	163.000	0.0071		
								1934	200.000	0.0119		
								1938	212.000	0.0150		
								1943	231.000	0.0192		
								1948	244.000	0.0237		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002264.

1976			SELECTED RUNOFF EVENT			BIESEL (WACO), TEXAS			WATERSHED G		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 5 - 6, 1976 (CONTINUED)											
							5- 5	1954	255.000	0.0293	
								1957	281.000	0.0324	
								2004	332.000	0.0405	
								2008	338.000	0.0455	
								2013	346.000	0.0520	
								2018	350.000	0.0586	
								2024	342.000	0.0664	
								2029	337.000	0.0728	
								2034	334.000	0.0791	
								2038	329.000	0.0841	
								2043	322.000	0.0903	
								2049	315.000	0.0975	
								2053	316.000	0.1023	
								2057	309.999	0.1070	
								2108	296.000	0.1196	
								2114	286.000	0.1262	
								2127	272.000	0.1399	
								2143	253.000	0.1557	
								2159	237.000	0.1705	
								2215	221.000	0.1844	
								2229	205.000	0.1956	
								2243	190.000	0.2060	
								2259	179.000	0.2172	
								2316	170.000	0.2284	
								2329	163.000	0.2365	
								2343	156.000	0.2450	
							5- 6	2400	150.000	0.2548	
								15	143.000	0.2631	
								30	138.000	0.2710	
								44	133.000	0.2782	
								59	128.000	0.2856	
								113	124.000	0.2922	
								130	119.000	0.3000	
								145	114.000	0.3066	
								159	109.000	0.3125	
								214	103.000	0.3185	
								229	95.000	0.3241	
								242	89.000	0.3286	
								259	83.000	0.3341	
								315	74.000	0.3389	
								329	69.000	0.3427	
								346	63.000	0.3469	
								400	57.000	0.3501	
								415	52.000	0.3532	
								430	49.000	0.3560	
								443	45.000	0.3583	
								501	43.000	0.3613	
								513	40.000	0.3632	
								529	38.000	0.3655	
								557	33.696	0.3693	
								630	31.230	0.3734	
								700	29.001	0.3768	
								731	26.884	0.3801	
								800	25.144	0.3829	
								859	22.029	0.3882	
								944	20.188	0.3917	
								1028	18.318	0.3949	
								1158	14.773	0.4006	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002264.



EVENT OF MAY 5 - 6, 1976
RIPSEL (WACO), TEXAS WATERSHED G

RIESEL (WACO), TEXAS WATERSHED W-1

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 27 sec. N.; Long. 96 deg. 52 min. 48 sec. W.

AREA: 174.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							RIESEL (WACO), TEXAS WATERSHED W-1										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.19	1.14	2.58	8.93	6.64	2.57	6.68	0.13	6.51	5.11	1.65	2.83	44.96			
	Q	0.0	0.002	0.121	2.994	2.639	0.130	2.045	0.004	0.565	1.660	0.184	1.545	11.890			
STA AV	P	2.20	2.60	2.52	4.04	4.26	3.31	1.92	2.21	2.89	3.05	2.93	2.57	34.49			
	Q	0.519	0.523	0.738	1.050	1.280	0.649	0.169	0.088	0.233	0.358	0.445	0.544	6.697			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		5-31	0.906	5- 5	0.643	5- 5	0.878	7-16	1.202	7-16	1.381	4-18	1.623	7-15	1.818	4-13	2.033
MAXIMUMS FOR PERIOD OF RECORD																	
		5- 1	4.510	5- 1	2.990	5- 1	5.570	5- 1	6.910	5- 1	6.920	5- 1	7.050	4-30	9.200	4-29	11.060
		1944		1944		1944		1944		1944		1944		1944		1944	

NOTES: Watershed conditions: 12% sorghum; 86% pasture; 2% roads. Area reported as 174 acres beginning 1969. Previously reported as 176 acres prior publications. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. pub. 1164, p. 42.6-6 (Revised). Precipitation and runoff records began July 1937; part-year amounts not included in averages. Precipitation data from Thiessen method using rain gages 75A, 85, W-2, W-2A and W-5A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED W-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.74	0.0	0.0	0.30	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	1.02	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.36	0.0	0.0	0.0		
4	0.0	0.0	0.07	0.77	0.0	0.0	1.34	0.0	0.0	1.66	0.0	0.0		
5	0.0	0.03	0.0	0.46	2.13	0.0	0.0	0.0	0.0	0.94	0.0	0.59		
6	0.0	0.0	0.26	0.0	0.0	0.0	0.91	0.0	0.0	0.0	0.0	0.23		
7	0.0	0.0	0.48	0.57	0.35	0.0	0.02	0.0	0.0	0.13	0.0	0.0		
8	0.0	0.0	0.4	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	1.32		
11	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.59		
12	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.13	0.0		
13	0.0	0.0	0.06	0.0	0.07	0.0	0.03	0.0	0.0	0.0	0.16	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.38	0.0	0.28	0.10		
15	0.0	0.0	0.0	0.68	0.0	0.49	1.23	0.0	0.0	0.08	0.04	0.0		
16	0.0	0.0	0.0	0.46	0.0	0.0	2.11	0.09	0.0	0.11	0.0	0.0		
17	0.0	0.84	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	3.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.03	0.0	0.0	0.0 T	0.0	0.11	0.0	0.0	0.29	0.22	0.48	0.0		
20	0.0	0.27	0.0	0.54	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.43	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.03	0.0	0.69	0.03	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0		
25	0.09	0.0	0.0	0.0	1.79	1.13	0.0	0.0	0.0	0.0	0.56	0.0		
26	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.42	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	1.54	0.0	0.0	0.0	0.0	3.58	0.06	0.0	0.0		
29	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.03	0.0	1.79	0.0	0.0		
30	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0		
31	0.04		0.0		1.29		0.0	0.0		0.0		0.0		
TOTAL	0.19	1.14	2.58	8.93	6.64	2.57	6.68	0.13	6.51	5.11	1.65	2.83		
STA AV	2.20	2.60	2.52	4.04	4.26	3.31	1.92	2.21	2.89	3.05	2.93	2.57		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 75A, 85, W-2, W-2A, and W-5A. Records began July 1937; part-year amounts not included in averages. STA AV based on 35 yr (1937-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.012	0.660	0.002	0.006	0.0	0.001	0.020	0.023
2	0.0	0.0	0.0	0.0	0.006	0.024	0.0 T	0.006	0.005	0.001	0.016	0.023
3	0.0	0.0	0.0	0.0	0.005	0.015	0.0 T	0.004	0.005	0.001	0.015	0.024
4	0.0	0.0	0.0	0.075	0.005	0.017	0.205	0.003	0.001	1.050	0.014	0.022
5	0.0	0.0	0.0	0.195	7.594	0.014	0.008	0.003	0.0	6.280	0.014	0.075
6	0.0	0.0	0.0	0.026	0.591	0.012	0.828	0.002	0.0	0.031	0.015	1.314
7	0.0	0.0	0.0	0.253	0.120	0.012	0.029	0.002	0.0	0.011	0.012	0.061
8	0.0	0.0	0.414	0.022	0.051	0.011	0.010	0.001	0.0	0.009	0.012	0.036
9	0.0	0.0	0.006	0.0 T	0.020	0.010	0.013	0.001	0.0	0.006	0.015	0.033
10	0.0	0.0	0.0	0.0	0.024	0.008	0.021	0.0 T	0.0	0.006	0.016	1.477
11	0.0	0.0	0.0	0.0	0.018	0.007	0.014	0.0 T	0.0	0.005	0.015	7.130
12	0.0	0.0	0.0	0.0	0.031	0.008	0.012	0.0	0.0	0.005	0.013	0.209
13	0.0	0.0	0.0	0.0	0.971	0.006	0.012	0.0	0.0	0.006	0.097	0.084
14	0.0	0.0	0.0	0.0	0.023	0.005	0.020	0.0	0.0	0.008	0.059	0.085
15	0.0	0.0	0.0	0.001	0.015	0.013	2.550	0.0	0.0	0.010	0.025	0.076
16	0.0	0.0	0.0	0.848	0.011	0.015	9.956	0.0	0.0	0.015	0.019	0.061
17	0.0	0.012	0.0	0.009	0.010	0.006	0.857	0.0	0.0	0.008	0.017	0.054
18	0.0	0.001	0.0	11.107	0.010	0.007	0.048	0.0	0.0	0.007	0.017	0.053
19	0.0	0.0	0.0	1.245	0.010	0.012	0.018	0.0	0.0	0.016	0.104	0.060
20	0.0	0.0	0.0	1.656	0.012	0.005	0.014	0.0	0.0	0.009	0.091	0.042
21	0.0	0.0	0.0	0.015	0.011	0.003	0.155	0.0	0.0	0.009	0.028	0.035
22	0.0	0.0	0.0	0.003	0.012	0.004	0.063	0.0	0.0	0.009	0.019	0.038
23	0.0	0.0	0.0	0.003	0.014	0.004	0.019	0.0	0.0	0.012	0.018	0.037
24	0.0	0.0	0.451	0.004	0.010	0.002	0.018	0.0	0.0	0.014	0.021	0.037
25	0.0	0.0	0.010	0.002	2.739	0.045	0.018	0.0	0.0	0.012	0.297	0.039
26	0.0	0.0	0.0	0.001	0.139	0.009	0.015	0.0	0.0	0.009	0.254	0.032
27	0.0	0.0	0.0	0.001	0.017	0.006	0.012	0.0	0.0	0.008	0.034	0.031
28	0.0	0.0	0.0	0.389	0.015	0.004	0.010	0.0	4.115	0.009	0.020	0.028
29	0.0	0.0	0.0	6.002	0.013	0.003	0.009	0.0	0.006	4.373	0.021	0.028
30	0.0	0.0	0.0	0.033	0.015	0.002	0.009	0.0	0.002	0.157	0.022	0.029
31	0.0	0.0	0.0	0.0	6.773	0.007	0.007	0.0	0.0	0.034	0.0	0.022
MEAN	0.0	0.0005	0.0284	0.7296	0.6224	0.0317	0.4823	0.0009	0.1378	0.3914	0.0447	0.3645
INCHES	0.0	0.002	0.121	2.994	2.639	0.130	2.045	0.004	0.565	1.660	0.184	1.545
STA AV	0.515	0.623	0.738	1.050	1.280	0.649	0.169	0.088	0.233	0.358	0.445	0.544

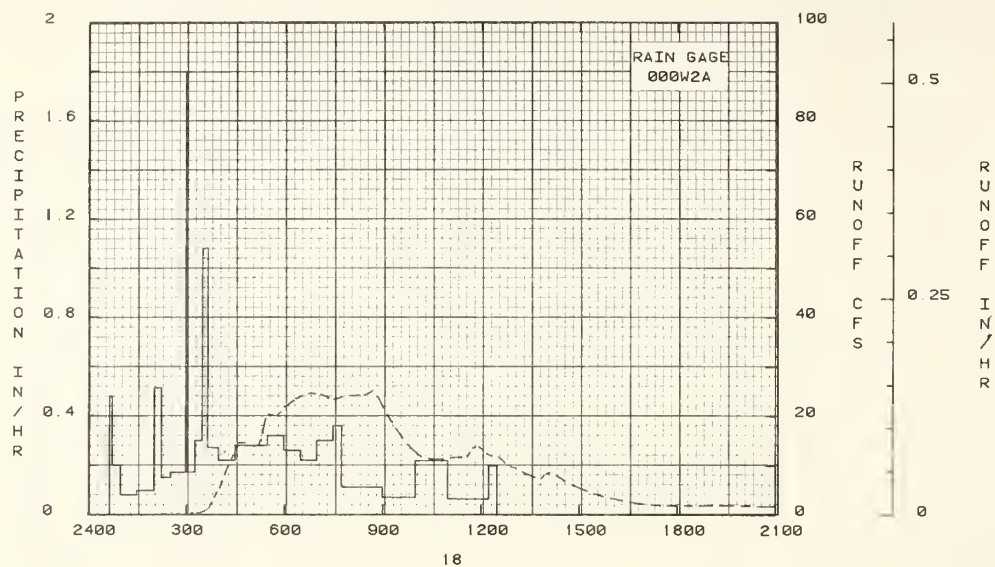
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.136791. Records began July 1937; part-year amounts not included in averages. STA AV based on 39 yr (1937-76) record period.

1976 SELECTED RUNOFF EVENT						RIESEL (WACO), TEXAS WATERSHED W-1						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF APRIL 18, 1976												
RG 000W2A			RG 000W2A									
4-18	0.0	0.000	4-18	39	0.0	0.0	4-18	204	0.022	0.0		
				44	0.4800	0.04		207	0.032	0.0000		
				59	0.2000	0.09		213	0.040	0.0000		
				129	0.0800	0.13		223	0.051	0.0001		
				200	0.0968	0.18		233	0.075	0.0001		
WATERSHED CONDITIONS:												
12% sorghum; 86% pasture,												
Bermudagrass, good cover												
moderately grazed; 2% gravel												
roads. Straight row culti-												
vation, not terraced.												
				214	0.5143	0.30		248	0.111	0.0003		
				230	0.1500	0.34		258	0.135	0.0004		
				258	0.1714	0.42		301	0.180	0.0004		
				301	1.8000	0.51		308	0.265	0.0006		
				315	0.1714	0.55		313	0.322	0.0007		
				329	0.3000	0.62		321	0.380	0.0010		
				339	1.0800	0.80		328	0.495	0.0013		
				359	0.2700	0.89		331	0.639	0.0014		
				429	0.2200	1.00		333	0.762	0.0016		
				459	0.2800	1.14		337	0.961	0.0019		
				529	0.2800	1.28		338	1.187	0.0020		
				559	0.3200	1.44		341	1.385	0.0024		
				629	0.2600	1.57		346	2.488	0.0033		
				659	0.2200	1.68		351	3.539	0.0047		
				729	0.3000	1.83		356	4.534	0.0066		
				744	0.3600	1.92		401	5.458	0.0090		
				859	0.1120	2.06		406	6.743	0.0115		
				959	0.0700	2.13		411	8.358	0.0155		
				1059	0.2200	2.35		416	9.799	0.0198		
				1214	0.0640	2.43		421	10.910	0.0247		
				1229	0.2000	2.48		426	12.064	0.0302		
								431	13.150	0.0362		
								433	13.874	0.0387		
								436	14.498	0.0428		
								446	14.498	0.0565		

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.005700.

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-1							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 18, 1976 (CONTINUED)										
				4-18				458	13.987	0.0728
								506	13.818	0.0834
								512	13.987	0.0913
								516	15.132	0.0968
								521	17.217	0.1045
								525	19.399	0.1114
								531	20.299	0.1228
								540	20.040	0.1400
								546	20.105	0.1514
								553	20.885	0.1651
								559	21.810	0.1772
								616	23.156	0.2135
								621	23.497	0.2246
								631	24.116	0.2472
								646	24.601	0.2819
								656	24.393	0.3052
								706	24.323	0.3284
								721	23.634	0.3625
								731	23.292	0.3848
								746	23.978	0.4185
								801	24.116	0.4528
								816	24.254	0.4872
								826	24.254	0.5103
								841	25.090	0.5454
								851	23.703	0.5686
								901	21.544	0.5901
								916	18.703	0.6188
								936	15.424	0.6512
								951	13.426	0.6717
								1010	11.639	0.6943
								1031	11.168	0.7171
								1051	11.272	0.7384
								1110	11.692	0.7591
								1125	11.692	0.7758
								1135	11.904	0.7870
								1140	12.657	0.7928
								1145	13.538	0.7991
								1150	13.874	0.8056
								1156	13.705	0.8134
								1204	13.094	0.8236
								1210	12.332	0.8309
								1219	11.904	0.8412
								1233	11.639	0.8569
								1244	10.450	0.8684
								1254	9.750	0.8780
								1304	9.358	0.8871
								1319	8.451	0.8998
								1339	7.579	0.9150
								1350	7.400	0.9228
								1355	7.988	0.9265
								1359	8.404	0.9296
								1406	8.498	0.9352
								1420	7.760	0.9460
								1434	6.743	0.9557
								1450	5.902	0.9653
								1514	4.759	0.9774
								1544	3.675	0.9894
								1619	2.823	1.0002
								1659	2.169	1.0097
								1729	1.893	1.0155
								1800	1.839	1.0210
								1844	1.866	1.0288
								1904	1.947	1.0324
								1944	1.893	1.0397
								2014	1.839	1.0450
								2039	1.760	1.0493

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.005700.



EVENT OF APRIL 18, 1976
 RIESEL (WACO), TEXAS WATERSHED W-1

RIESEL (WACO), TEXAS WATERSHED W-6

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 24 sec. N.; Long. 96 deg. 53 min. 11 sec. W.

AREA: 42.30 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED W-6	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976 P	0.19	1.37	2.34	9.78	7.68	1.90	6.94	0.17	6.70	5.85	1.77	3.30	48.49	
Q	0.0	0.0	0.011	2.736	1.755	0.305	1.091	0.003	0.576	1.298	0.045	0.947	8.768	
STA AV P	2.01	2.50	2.35	4.08	4.00	3.36	1.88	2.35	3.01	3.26	2.90	2.41	34.11	
Q	0.331	0.410	0.532	0.778	0.800	0.531	0.106	0.045	0.199	0.287	0.346	0.432	4.796	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
Maximum Discharge Date	1 Hour Date	2 Hours Date	Maximum Volume for Selected Time Interval	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date						
1976 9-28 1.123	5-5 0.544	5-5 0.744	10-4 0.993	10-4 1.025	4-18 1.592	4-18 1.836	4-16 1.964							
MAXIMUMS FOR PERIOD OF RECORD														
6-10 3.990	4-19 2.330	4-19 2.780	5-11 3.130	5-11 3.210	3-29 4.060	11-22 5.090	4-19 9.060							
1941	1957	1957	1957	1957	1965	1940	1957							

NOTES: Watershed conditions: 74% gravel and paved road; 91% pasture; 2% other. All of other land use is non-tilled, non-pastured land, generally in various crop acreage reduction programs. Modified conservation program since 1956. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1154, p. 42.7-5 (Revised). Precipitation and runoff records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gauges W-2, W-4 and W-5A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED W-6	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.40	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	1.09	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.40	0.0	0.0	0.0		
4	0.0	0.0	0.07	1.20	0.0	0.0	1.09	0.0	0.0	1.87	0.0	0.0		
5	0.0	0.04	0.0	0.12	2.29	0.0	0.0	0.0	0.0	1.07	0.0	0.62		
6	0.0	0.0	0.29	0.0	0.0	0.0	1.24	0.0	0.0	0.0	0.0	0.30		
7	0.0	0.0	0.51	0.62	0.34	0.0	0.0	0.0	0.0	0.20	0.0	0.0		
8	0.0	0.0	0.55	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	1.49		
11	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.78		
12	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.15	0.0		
13	0.0	0.0	0.05	0.0	0.05	0.0	0.06	0.0	0.0	0.0	0.19	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.35	0.0	0.22	0.11		
15	0.0	0.0	0.0	0.79	0.0	0.48	1.22	0.0	0.0	0.12	0.03	0.0		
16	0.0	0.0	0.0	0.41	0.0	0.0	1.97	0.13	0.0	0.15	0.0	0.0		
17	0.0	1.02	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	3.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.03	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.38	0.26	0.54	0.0		
20	0.0	0.31	0.0	0.63	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.56	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.04	0.0	0.74	0.03	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0		
25	0.09	0.0	0.0	0.0	1.85	1.29	0.0	0.0	0.0	0.0	0.64	0.0		
26	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.50	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	1.59	0.0	0.0	0.0	0.0	3.44	0.08	0.0	0.0		
29	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.03	0.0	1.94	0.0	0.0		
30	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0		
31	0.03		0.0		1.98		0.0	0.0		0.0		0.0		
TOTAL	0.19	1.37	2.34	9.78	7.68	1.90	6.94	0.17	6.70	5.85	1.77	3.30		
STA AV	2.01	2.50	2.35	4.08	4.00	3.36	1.88	2.35	3.01	3.26	2.90	2.41		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gauges W-2, W-4, and W-5A. Records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV values are based on 34 yr record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-6												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0 T	0.028	0.0	0.002	0.0	0.0	0.002	0.0 T
2	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.001	0.0	0.0	0.002	0.0
3	0.0	0.0	0.0	0.0	0.0	0.033	0.0	0.001	0.0	0.0	0.002	0.0 T
4	0.0	0.0	0.0	0.0	0.0	0.449	0.0	0.001	0.0	0.589	0.002	0.0
5	0.0	0.0	0.0	0.003	1.460	0.004	0.0	0.001	0.0	1.237	0.001	0.008
6	0.0	0.0	0.0	0.0 T	0.052	0.003	0.024	0.0 T	0.0	0.0 T	0.001	0.084
7	0.0	0.0	0.0	0.020	0.041	0.004	0.0 T	0.0	0.0	0.0 T	0.001	0.001
8	0.0	0.0	0.001	0.0 T	0.010	0.003	0.0	0.0	0.0	0.001	0.001	0.001
9	0.0	0.0	0.0	0.0	0.009	0.003	0.0	0.0	0.0	0.0 T	0.001	0.001
10	0.0	0.0	0.0	0.0	0.013	0.002	0.001	0.0	0.0	0.0	0.001	0.325
11	0.0	0.0	0.0	0.0	0.011	0.002	0.0 T	0.0	0.0	0.0 T	0.002	1.120
12	0.0	0.0	0.0	0.0	0.033	0.001	0.0	0.0	0.0	0.0 T	0.001	0.020
13	0.0	0.0	0.0	0.0	0.134	0.001	0.0	0.0	0.0	0.0	0.007	0.010
14	0.0	0.0	0.0	0.0	0.004	0.0	0.001	0.0	0.0	0.0 T	0.002	0.021
15	0.0	0.0	0.0	0.0	0.004	0.002	0.115	0.0	0.0	0.0 T	0.001	0.014
16	0.0	0.0	0.0	0.067	0.003	0.001	1.570	0.0	0.0	0.001	0.001	0.011
17	0.0	0.0	0.0	0.0	0.003	0.0	0.097	0.0	0.0	0.0	0.001	0.009
18	0.0	0.0	0.0	2.735	0.003	0.0 T	0.013	0.0	0.0	0.0	0.001	0.010
19	0.0	0.0	0.0	0.153	0.003	0.0 T	0.003	0.0	0.0	0.001	0.009	0.011
20	0.0	0.0	0.0	0.537	0.003	0.0	0.003	0.0	0.0	0.0	0.003	0.003
21	0.0	0.0	0.0	0.001	0.003	0.0	0.071	0.0	0.0	0.0	0.0 T	0.003
22	0.0	0.0	0.0	0.0	0.002	0.0	0.009	0.0	0.0	0.0	0.0	0.004
23	0.0	0.0	0.0	0.0	0.002	0.0	0.004	0.0	0.0	0.0	0.0	0.004
24	0.0	0.0	0.018	0.0	0.001	0.0	0.004	0.0	0.0	0.0	0.0 T	0.004
25	0.0	0.0	0.0	0.0	0.455	0.002	0.004	0.0	0.0	0.0	0.028	0.003
26	0.0	0.0	0.0	0.0	0.009	0.0	0.004	0.0	0.0	0.0	0.007	0.002
27	0.0	0.0	0.0	0.0	0.002	0.0	0.004	0.0	0.0	0.0	0.0 T	0.002
28	0.0	0.0	0.0	0.211	0.003	0.0	0.004	0.0	1.024	0.0	0.0 T	0.002
29	0.0	0.0	0.0	1.135	0.002	0.0	0.003	0.0	0.0	0.465	0.0	0.003
30	0.0	0.0	0.0	0.001	0.003	0.0	0.002	0.0	0.0	0.008	0.0 T	0.003
31	0.0	0.0	0.0	0.0	0.852	0.001	0.001	0.0	0.0	0.002	0.0	0.003
MEAN	0.0	0.0	0.0006	0.1621	0.1006	0.0181	0.0625	0.0002	0.0341	0.0744	0.0027	0.0543
INCHES	0.0	0.0	0.011	2.736	1.755	0.305	1.091	0.003	0.576	1.298	0.045	0.947
STA AV	0.331	0.410	0.532	0.778	0.800	0.531	0.106	0.045	0.199	0.287	0.346	0.432

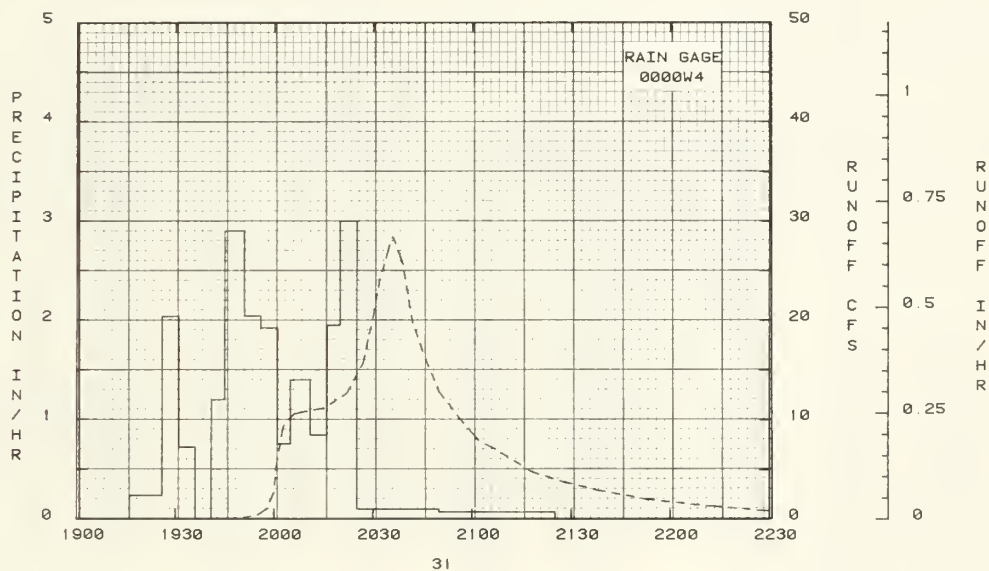
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.562687. Records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV values are based on 34 yr (1939-July 1943, Jan. 1946-76) record period.

1976 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED W-6											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 31, 1976											
RG 0000W4											
5-31	0.31	0.003	5-31	1916	0.0	0.0	5-31	1930	0.004	0.0	
				1926	0.2400	0.04		1933	0.010	0.0000	
				1931	2.0402	0.21		1938	0.042	0.0001	
				1936	0.7200	0.27		1943	0.069	0.0002	
				1941	0.0	0.27		1946	0.067	0.0002	
WATERSHED CONDITIONS:											
91% pasture, Bernadagrass, good cover, moderately grazed; 7% gravel roads; 2% Johnsongrass and weeds, not tilled or grazed.											
				1945	1.2000	0.35		1949	0.094	0.0003	
				1951	2.8999	0.64		1951	0.172	0.0004	
				1956	2.0400	0.81		1953	0.277	0.0006	
				2001	1.9200	0.97		1955	0.409	0.0009	
				2005	0.7500	1.02		1958	1.090	0.0018	
				2011	1.4000	1.16		2000	2.693	0.0032	
				2016	0.8399	1.23		2001	6.136	0.0050	
				2020	1.9501	1.36		2003	9.479	0.0111	
				2025	3.0000	1.61		2006	10.587	0.0228	
				2050	0.0960	1.65		2010	10.867	0.0396	
				2125	0.0686	1.69		2015	11.151	0.0611	
								2022	12.647	0.0937	
								2027	15.711	0.1214	
								2030	20.422	0.1425	
								2032	24.163	0.1600	
								2035	27.579	0.1903	
								2036	28.404	0.2012	
								2039	25.621	0.2329	
								2042	19.699	0.2595	
								2046	16.021	0.2874	
								2050	12.781	0.3099	
								2056	10.196	0.3368	
								2100	8.622	0.3515	
								2102	7.883	0.3580	
								2107	7.003	0.3725	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.023445.

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-6								
ANTECEDENT CONDITIONS			RAINFALL			Acc. (inches)	RUNOFF				Acc. (inches)
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)		Date Mo-Day	Time of Day	Rate (cfs)		
EVENT OF MAY 31, 1976 (CONTINUED)											
							5-31	2118	4.711	0.3977	
								2128	3.679	0.4141	
								2138	2.891	0.4269	
								2153	1.991	0.4412	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.023445.



EVENT OF MAY 31, 1976
RIESEL (WACO), TEXAS WATERSHED W-6

RIESEL (WACO), TEXAS WATERSHED W-10

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 12 sec. N.; Long. 96 deg. 53 min. 00 sec. W.

AREA: 19.70 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED W-10															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1976	P	0.21	1.55	3.59	8.94	7.02	1.69	6.77	0.13	6.28	4.96	1.56	2.80	45.50															
	Q	0.0	0.021	0.284	3.760	2.371	0.180	2.213	0.0	0.067	1.972	0.130	1.633	12.650															
STA AV	P	2.03	2.52	2.29	4.04	3.89	3.36	1.84	2.44	3.01	3.22	2.87	2.36	33.87															
	Q	0.527	0.531	0.535	1.003	0.943	0.637	0.169	0.115	0.300	0.494	0.538	0.596	6.437															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days															
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.												
1976		5-5	0.685	5-5	0.473	5-5	0.679	7-16	1.091	7-16	1.242	4-18	1.812	4-18	2.013	4-15	2.619												
MAXIMUMS FOR PERIOD OF RECORD																													
		5-10	5.010	4-19	2.310	4-19	2.550	5-11	3.000	11-22	3.330	9-16	3.789	4-24	5.160	5-19	8.290												
		1941		1957		1957		1957		1940		1974		1966		1957													

NOTES: Watershed conditions: 100% Coastal Bermuda grass for pasture. Good cover, moderately grazed, terraced. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1154, p. 42.7-5 (Revised). Precipitation and runoff records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. Precipitation data obtained from rain gage W-6. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED W-10									
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.38	0.0	0.0	0.0	0.0										
2	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	1.05	0.0	0.0	0.0	0.0										
3	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.26	0.0	0.0	0.0	0.0										
4	0.0	0.0	0.07	0.76	0.0	0.0	0.86	0.0	0.0	1.63	0.0	0.0	0.0										
5	0.0	0.03	0.0	0.46	1.92	0.0	0.0	0.0	0.0	0.91	0.0	0.0	0.55										
6	0.0	0.0	0.20	0.0	0.27	0.0	1.16	0.0	0.0	0.0	0.0	0.0	0.25										
7	0.0	0.0	0.96	0.56	0.35	0.0	0.05	0.0	0.0	0.14	0.0	0.0	0.0										
8	0.0	0.0	1.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
9	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
10	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	1.27										
11	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.63										
12	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0										
13	0.0	0.0	0.07	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0										
14	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.24	0.0	0.15	0.10	0.0										
15	0.0	0.0	0.0	0.67	0.0	0.41	1.29	0.0	0.0	0.06	0.07	0.0	0.0										
16	0.0	0.0	0.0	0.45	0.0	0.0	2.04	0.08	0.0	0.11	0.0	0.0	0.0										
17	0.0	1.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
18	0.0	0.0	0.0	3.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
19	0.04	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.28	0.19	0.45	0.0	0.0										
20	0.0	0.31	0.0	0.69	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0										
21	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0										
22	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
23	0.0	0.0	0.47	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
24	0.0	0.0	0.74	0.02	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0										
25	0.14	0.0	0.0	0.0	1.61	1.10	0.0	0.0	0.0	0.0	0.55	0.0	0.0										
26	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0										
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
28	0.0	0.0	0.0	2.08	0.0	0.0	0.0	0.0	3.45	0.05	0.0	0.0	0.0										
29	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	1.72	0.0	0.0	0.0										
30	0.0		0.04	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0										
31	0.03		0.0		1.73		0.0	0.0		0.0		0.0	0.0										
TOTAL	0.21	1.55	3.59	8.94	7.02	1.69	6.77	0.13	6.28	4.96	1.56	2.80											
STA AV	2.03	2.52	2.29	4.04	3.89	3.36	1.84	2.44	3.01	3.22	2.87	2.36											

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W-6. Records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. STA AV based on 34 yr (1938-July 1943, March 1946-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-10													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0 T	0.147	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.114	0.0	0.0	0.0
5	0.0	0.0	0.0	0.033	0.728	0.0	0.0	0.0	0.0	0.722	0.0	0.002	
6	0.0	0.0	0.0	0.009	0.129	0.0	0.156	0.0	0.0	0.001	0.0	0.225	
7	0.0	0.0	0.0	0.081	0.015	0.0	0.002	0.0	0.0	0.0	0.0	0.009	
8	0.0	0.0	0.075	0.017	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	
9	0.0	0.0	0.002	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.193	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.891	
12	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.025	
13	0.0	0.0	0.0	0.0	0.211	0.0	0.0	0.0	0.0	0.0	0.001	0.003	
14	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.003	0.001	
15	0.0	0.0	0.0	0.0 T	0.0	0.0	0.338	0.0	0.0	0.0	0.0 T	0.001	
16	0.0	0.0	0.0	0.292	0.0	0.0	1.036	0.0	0.0	0.0	0.0	0.0 T	
17	0.0	0.017	0.0	0.001	0.0	0.0	0.161	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0 T	0.0	1.370	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.221	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	
20	0.0	0.0	0.0	0.281	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	
21	0.0	0.0	0.0	0.002	0.0	0.0	0.113	0.0	0.0	0.0	0.0 T	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.026	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.152	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.005	0.0	0.242	0.0 T	0.0	0.0	0.0	0.0	0.042	0.0	
26	0.0	0.0	0.0	0.0	0.025	0.0	0.0	0.0	0.0	0.0	0.048	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	
28	0.0	0.0	0.0	0.106	0.0	0.0	0.0	0.0	0.055	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.705	0.0	0.0	0.0	0.0	0.0	0.757	0.0	0.0	
30	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.038	0.0	0.0	
31	0.0	0.0	0.0	0.601	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
MEAN	0.0	0.0006	0.0076	0.1043	0.0633	0.0050	0.0591	0.0	0.0018	0.0526	0.0036	0.0436	
INCHES	0.0	0.021	0.294	3.780	2.371	0.180	2.213	0.0	0.067	1.972	0.130	1.633	
STA AV	0.527	0.531	0.585	1.003	0.943	0.637	0.169	0.115	0.300	0.494	0.538	0.596	

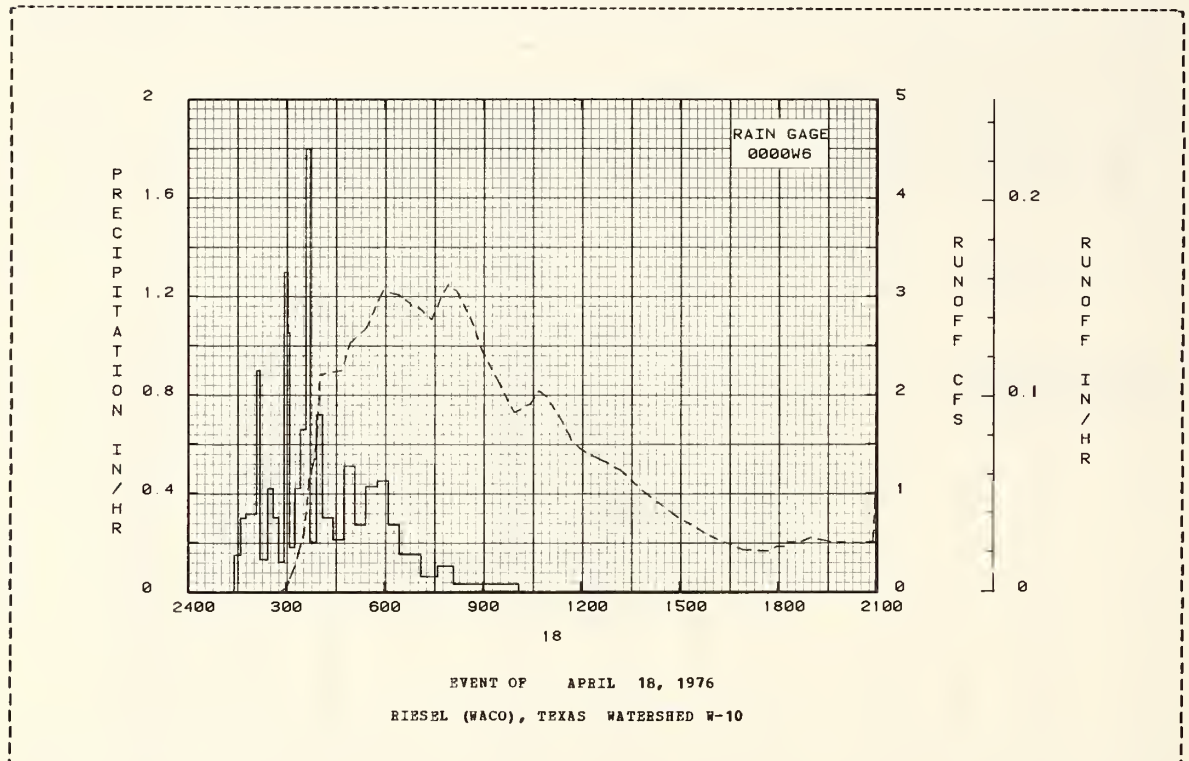
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.208206. Records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. STA AV based on 34 yr (1938-July 1943, May 1946-76) record period.

1976 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED W-10											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 18, 1976											
EG 0000W6											
4-18	0.0	0.0	4-18	125	0.0	0.0	4-18	227	0.0	0.0	
				137	0.1500	0.03		237	0.0	0.0	
				147	0.3000	0.08		242	0.001	0.0	
				206	0.3158	0.18		247	0.004	0.0000	
				212	0.9000	0.27		252	0.010	0.0000	
WATERSHED CONDITIONS:											
100% Coastal Bermuda grass											
pasture, 4 to 6 inches											
high, good cover.											
				226	0.1286	0.30		256	0.028	0.0001	
				236	0.4200	0.37		302	0.066	0.0003	
				246	0.3000	0.42		305	0.109	0.0006	
				256	0.1200	0.44		307	0.139	0.0008	
				302	1.3000	0.57		317	0.269	0.0025	
				306	1.0500	0.64		322	0.390	0.0039	
				316	0.1800	0.67		327	0.478	0.0057	
				326	0.4200	0.74		332	0.577	0.0079	
				336	0.6600	0.85		337	0.807	0.0108	
				344	1.8000	1.09		342	1.153	0.0149	
				356	0.2000	1.13		352	1.348	0.0254	
				406	0.7200	1.25		357	1.678	0.0317	
				426	0.3000	1.35		402	2.209	0.0399	
				446	0.2100	1.42		412	2.224	0.0585	
				506	0.5100	1.59		442	2.252	0.1148	
				526	0.2700	1.68		457	2.535	0.1449	
				547	0.4286	1.83		527	2.677	0.2105	
				607	0.4500	1.98		557	3.063	0.2828	
				627	0.2700	2.07		627	3.011	0.3592	
				707	0.1500	2.17		649	2.908	0.4138	
				737	0.0600	2.20		702	2.875	0.4454	
				806	0.1034	2.25		726	2.758	0.5021	
				1006	0.0300	2.31		742	2.977	0.5406	
								756	3.116	0.5764	
								812	3.046	0.6177	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.050342.

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-10							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF APRIL 18, 1976 (CONTINUED)										
							4-18	842	2.710	0.6902
								857	2.459	0.7227
								927	2.139	0.7806
								957	1.824	0.8305
								1027	1.912	0.8775
								1042	2.044	0.9024
								1057	1.977	0.9277
								1127	1.714	0.9741
								1142	1.540	0.9946
								1157	1.453	1.0134
								1227	1.358	1.0488
								1249	1.297	1.0733
								1312	1.229	1.0977
								1357	1.003	1.1398
								1457	0.750	1.1839
								1557	0.565	1.2170
								1657	0.418	1.2418
								1742	0.413	1.2575

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.050342.



RIESEL (WACO), TEXAS WATERSHED Y

LOCATION: Falls Co., Texas; 17 mi. SE Waco; Brazos Basin. Lat. 31 deg. 28 min. 36 sec. N.; Long. 96 deg. 52 min. 36 sec. W.

AREA: 309.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TRIAS WATERSHED Y					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	0.17	0.93	2.69	9.00	7.24	1.99	6.03	0.10	5.63	5.31	1.57	2.83	43.49					
	Q	0.0	0.0	0.019	2.117	1.920	0.126	1.230	0.0	0.144	1.059	0.133	1.350	8.098					
STA AV	P	2.11	2.49	2.32	3.98	3.93	3.42	1.91	2.18	2.88	3.12	2.75	2.39	33.49					
	Q	0.517	0.537	0.571	0.813	0.736	0.596	0.165	0.046	0.163	0.246	0.364	0.437	5.191					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		5-31	0.594	5-31	0.480	5-31	0.636	5-31	0.815	7-16	0.862	4-18	1.134	4-18	1.228	4-28	1.424		
MAXIMUMS FOR PERIOD OF RECORD																			
		4-19	2.543	4-19	2.150	4-19	2.740	4-19	3.480	4-19	3.660	3-29	3.980	11-22	4.770	4-19	9.360		
		1957		1957		1957		1957		1957		1965		1940		1957			

NOTES: Watershed conditions: 71% pasture; 5% cotton; 6% fall planted small grain, largely oats; 15% row grain sorghum; 3% gravel, paved roads and other. Cropland terraced, contour cultivation. No change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 69, 69B, 70, 75A, 84A, 89, and W-2A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976	DAILY PRECIPITATION (inches)						RIESEL (WACO), TEXAS WATERSHED Y						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.23	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	1.01	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.34	0.0	0.0	0.0	
4	0.0	0.0	0.12	0.71	0.0	0.0	1.31	0.0	0.0	1.89	0.0	0.0	
5	0.0	0.02	0.0	0.52	2.00	0.02	0.19	0.0	0.0	0.86	0.0	0.66	
6	0.0	0.0	0.27	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.20	
7	0.0	0.0	0.43	0.58	0.30	0.0	0.03	0.0	0.0	0.13	0.0	0.0	
8	0.0	0.0	0.47	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.20	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	1.32	
11	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.55	
12	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.11	0.0	
13	0.0	0.0	0.10	0.0	0.04	0.0	0.01	0.0	0.0	0.0	0.13	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.48	0.0	0.22	0.10	
15	0.0	0.0	0.0	0.68	0.0	0.42	1.20	0.0	0.0	0.08	0.08	0.0	
16	0.0	0.0	0.0	0.53	0.0	0.0	1.94	0.06	0.0	0.09	0.0	0.0	
17	0.0	0.57	0.0	0.0	0.0	0.15	0.0	0.01	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	3.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.03	0.0	0.0	0.01	0.0	0.08	0.0	0.0	0.26	0.22	0.47	0.0	
20	0.0	0.24	0.0	0.50	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.1	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.47	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.02	0.0	0.70	0.07	0.0	0.0 T	0.0	0.0	0.0	0.10	0.0	0.0	
25	0.09	0.0	0.0	0.0	1.64	1.21	0.0	0.0	0.0	0.01	0.56	0.0	
26	0.0	0.0	0.0	0.0	0.06	0.01	0.0	0.0	0.41	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	1.52	0.0	0.0	0.0	0.0	2.75	0.07	0.0	0.0	
29	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.03	0.0	1.86	0.0	0.0	
30	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	
31	0.03	0.0	0.0	0.0	2.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.17	0.93	2.69	9.00	7.24	1.99	6.03	0.10	5.63	5.31	1.57	2.83	
STA AV	2.11	2.49	2.32	3.98	3.93	3.42	1.91	2.18	2.88	3.12	2.75	2.39	

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 69, 69B, 70, 75A, 84A, 89, and W-2A. Records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 35 yr (1937-July 1943, May 1946-76) record period. Estimate codes may indicate that non-significant event totals are included.

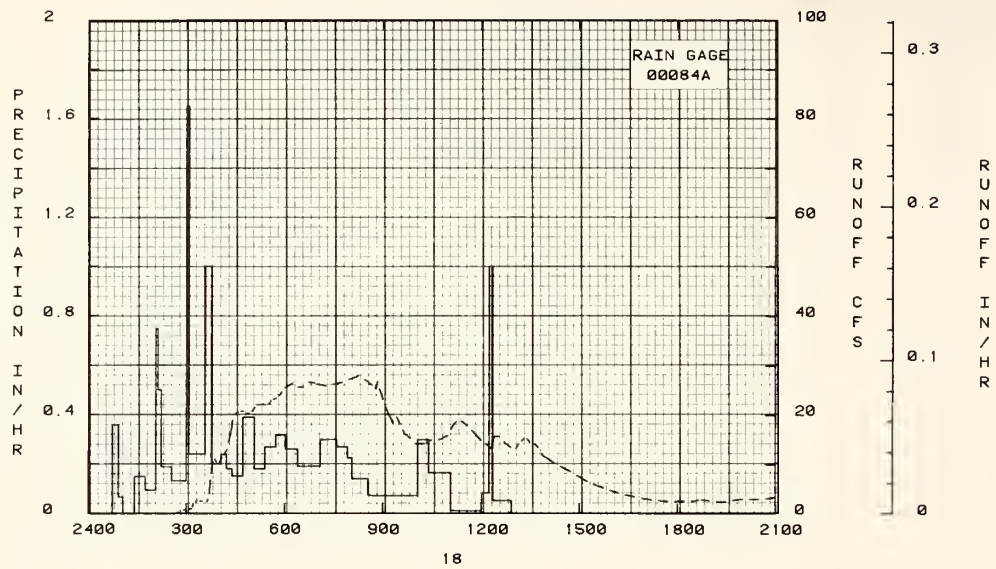
1976 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.069	1.301	0.001	0.0	0.0	0.0	0.036	0.023
2	0.0	0.0	0.0	0.0	0.039	0.079	0.001	0.0	0.0 T	0.0	0.031	0.025
3	0.0	0.0	0.0	0.0	0.028	0.034	0.001	0.0	0.0 T	0.0	0.027	0.026
4	0.0	0.0	0.0	0.0	0.022	0.040	0.460	0.0	0.0	1.190	0.023	0.025
5	0.0	0.0	0.0	0.069	8.495	0.029	0.011	0.0	0.0	6.805	0.018	0.155
6	0.0	0.0	0.0	0.025	1.152	0.018	0.166	0.0	0.0	0.031	0.017	1.700
7	0.0	0.0	0.0	0.165	0.361	0.020	0.030	0.0	0.0	0.009	0.015	0.101
8	0.0	0.0	0.082	0.046	0.205	0.017	0.003	0.0	0.0	0.010	0.011	0.051
9	0.0	0.0	0.008	0.002	0.118	0.009	0.002	0.0	0.0	0.006	0.021	0.051
10	0.0	0.0	0.002	0.0	0.144	0.006	0.014	0.0	0.0	0.005	0.023	2.652
11	0.0	0.0	0.001	0.0	0.077	0.003	0.009	0.0	0.0	0.005	0.015	10.297
12	0.0	0.0	0.0 T	0.0	0.091	0.001	0.003	0.0	0.0	0.005	0.008	0.536
13	0.0	0.0	0.0	0.0	1.479	0.001	0.002	0.0	0.0	0.005	0.118	0.222
14	0.0	0.0	0.0	0.0	0.075	0.001	0.003	0.0	0.0	0.006	0.098	0.243
15	0.0	0.0	0.0	0.0 T	0.044	0.001	2.444	0.0	0.0	0.008	0.038	0.203
16	0.0	0.0	0.0	0.825	0.030	0.004	10.964	0.0	0.0	0.015	0.022	0.147
17	0.0	0.0	0.0	0.020	0.020	0.001	1.537	0.0	0.0	0.008	0.015	0.116
18	0.0	0.0	0.0	13.605	0.015	0.001	0.122	0.0	0.0	0.005	0.014	0.123
19	0.0	0.0	0.0	1.846	0.013	0.001	0.036	0.0	0.0	0.013	0.141	0.148
20	0.0	0.0	0.0	1.953	0.014	0.001	0.022	0.0	0.0	0.008	0.140	0.074
21	0.0	0.0	0.0	0.050	0.012	0.0 T	0.025	0.0	0.0	0.004	0.037	0.060
22	0.0	0.0	0.0	0.030	0.009	0.0	0.042	0.0	0.0	0.004	0.017	0.070
23	0.0	0.0	0.0	0.034	0.009	0.0	0.020	0.0	0.0	0.007	0.015	0.069
24	0.0	0.0	0.142	0.036	0.006	0.0	0.013	0.0	0.0	0.009	0.017	0.076
25	0.0	0.0	0.014	0.023	1.964	0.060	0.014	0.0	0.0	0.010	0.294	0.067
26	0.0	0.0	0.001	0.020	0.278	0.004	0.011	0.0	0.0	0.005	0.418	0.052
27	0.0	0.0	0.0	0.019	0.026	0.001	0.005	0.0	0.0	0.003	0.042	0.055
28	0.0	0.0	0.0	1.198	0.014	0.001	0.002	0.0	1.861	0.002	0.017	0.049
29	0.0	0.0	0.0	7.401	0.008	0.001	0.001	0.0	0.006	5.141	0.017	0.042
30	0.0	0.0	0.0	0.121	0.007	0.001	0.001	0.0	0.0	0.372	0.018	0.045
31	0.0	0.0	0.0		10.109		0.001	0.0		0.056		0.022
MEAN	0.0	0.0	0.0081	0.9162	0.8042	0.0546	0.5151	0.0	0.0622	0.4434	0.0574	0.5653
INCHES	0.0	0.0	0.019	2.117	1.920	0.126	1.230	0.0	0.144	1.059	0.133	1.350
STA AV	0.517	0.537	0.571	0.813	0.736	0.596	0.165	0.046	0.163	0.246	0.364	0.437

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.077028. Records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 35 yr (1937-July 1943, May 1946-76) record period.

1976			SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF APRIL 18, 1976												
RG 03084A			RG 00084A									
4-18	0.0	0.0	4-18	45	0.0	0.0	4-18	235	0.020	0.0		
				55	0.3600	0.06		240	0.077	0.0000		
				104	0.0667	0.07		242	0.164	0.0000		
				125	0.0	0.07		245	0.338	0.0001		
				145	0.1500	0.12		249	0.560	0.0002		
WATERSHED CONDITIONS:												
71% pasture, Bermudagrass			204			0.0947	0.15	250	0.615	0.0002		
and native grass, good			208			0.7500	0.20	255	0.741	0.0004		
cover, moderately grazed;			214			0.5000	0.25	300	0.794	0.0006		
6% fall planted oats; 15%			233			0.1895	0.31	305	0.899	0.0008		
row grain sorghum; 5%			300			0.1333	0.37	310	1.018	0.0011		
cotton; 3% gravel roads			304			1.6500	0.48	312	1.408	0.0012		
and other. Cropland terraced,			324			0.2400	0.56	313	1.970	0.0013		
cultivated on contour.			334			0.2400	0.60	317	2.489	0.0018		
			346			1.0000	0.80	320	2.759	0.0022		
			404			0.2000	0.86	325	2.548	0.0029		
			414			0.2400	0.90	329	2.419	0.0034		
			424			0.1800	0.93	338	2.489	0.0046		
			444			0.1500	0.98	340	2.956	0.0049		
			504			0.3900	1.11	342	4.092	0.0053		
			524			0.1800	1.17	344	6.817	0.0059		
			544			0.2700	1.26	347	9.496	0.0072		
			601			0.3176	1.35	350	10.452	0.0088		
			624			0.2609	1.45	352	11.052	0.0099		
			705			0.1902	1.58	355	10.452	0.0116		
			735			0.3000	1.73	400	10.329	0.0144		
			755			0.2700	1.82	405	11.411	0.0173		
			803			0.2250	1.85	410	12.189	0.0205		
			833			0.1400	1.92	415	13.042	0.0239		
			1004			0.0725	2.03	420	15.948	0.0277		
			1024			0.3000	2.13	425	18.869	0.0324		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.003210.

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.003210.



EVENT OF APRIL 16, 1976
FIESEL (WACO), TEXAS WATERSHED Y

RIESEL (WACO), TEXAS WATERSHED Y-2

LOCATION: Falls Co., Texas; 18 mi. SE Waco; Brazos River Basin. Lat. 31 deg. 28 min. 30 sec. N.; Long. 96 deg. 52 min. 46 sec. W.

AREA: 132.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED Y-2	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P	0.14	0.88	2.74	9.04	7.26	1.97	5.81	0.10	5.49	5.41	1.60	2.88	43.32	
	Q	0.0	0.0	0.0	2.347	2.080	0.082	1.303	0.0	0.184	1.246	0.058	1.233	8.532	
STA AV	P	2.13	2.55	2.54	4.05	4.34	3.36	1.93	2.18	2.95	3.08	2.89	2.52	34.52	
	Q	0.449	0.577	0.694	0.921	1.054	0.612	0.165	0.045	0.157	0.283	0.377	0.514	5.848	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge Date	1 Hour Date	2 Hours Date	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date						
1976		5-31	0.937	5-31	0.672	5-31	0.826	5-31	0.985	5-31	1.012	4-17	1.412	4-17	1.470
MAXIMUMS FOR PERIOD OF RECORD															
		5-1	4.070	5-1	3.110	5-1	5.470	5-1	7.080	5-1	7.280	5-1	7.460	4-30	9.640
		1944		1944		1944		1944		1944		1944		1944	

NOTES: Watershed conditions: 12% cotton; 15% fall planted small grain, largely oats; 13% row grain sorghum; 59% pasture; 1% gravel and paved roads. Cropland terraced, contour cultivation, conservation treatment since 1942. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (revised). Precipitation and runoff records began Jan. 1, 1939. Precipitation data from Thiessen weighted method using rain gages 69, 69B, 70, 75A, and 84A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED Y-2	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
	1	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.21	0.0	0.0	0.0		
	2	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	1.04	0.0	0.0	0.0		
	3	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.33	0.0	0.0	0.0		
	4	0.0	0.0	0.14	0.70	0.0	0.0	1.15	0.0	0.0	2.02	0.0	0.0		
	5	0.0	0.02	0.0	0.55	1.95	0.01	0.46	0.0	0.0	0.83	0.0	0.0		0.69
	6	0.0	0.0	0.26	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.22		
	7	0.0	0.0	0.51	0.58	0.27	0.0	0.02	0.0	0.0	0.10	0.0	0.0		
	8	0.0	0.0	0.43	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0		
	9	0.0	0.0	0.0	0.0	0.25	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	1.30		
	11	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.58		
	12	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.11	0.0		
	13	0.0	0.0	0.10	0.0	0.03	0.0	0.02	0.0	0.0	0.0	0.14	0.0		
	14	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.48	0.0	0.22	0.09		
	15	0.0	0.0	0.0	0.65	0.0	0.41	1.15	0.0	0.0	0.07	0.08	0.0		
	16	0.0	0.0	0.0	0.57	0.0	0.0	1.78	0.07	0.0	0.09	0.0	0.0		
	17	0.0	0.64	0.0	0.0	0.0	0.16	0.0	0.0 T	0.0	0.0	0.0	0.0		
	18	0.0	0.0	0.0	3.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	19	0.03	0.0	0.0	0.01	0.0	0.09	0.0	0.0	0.26	0.23	0.48	0.0		
	20	0.0	0.22	0.0	0.48	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0		
	21	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0		
	22	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0		
	23	0.0	0.0	0.46	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	24	0.04	0.0	0.71	0.07	0.0	0.0 T	0.0	0.0	0.0	0.09	0.0	0.0		
	25	0.04	0.0	0.0	0.0	1.61	1.20	0.0	0.0	0.0	0.0 T	0.57	0.0		
	26	0.0	0.0	0.0	0.0	0.06	0.03	0.0	0.0	0.44	0.0	0.0	0.0		
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	28	0.0	0.0	0.0	1.54	0.0	0.0	0.0	0.0	2.57	0.06	0.0	0.0		
	29	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.03	0.0	1.92	0.0	0.0		
	30	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0		
	31	0.03	0.0	0.0	0.0	2.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL		0.14	0.38	2.74	9.04	7.26	1.97	5.81	0.10	5.49	5.41	1.60	2.88		
STA AV		2.13	2.55	2.54	4.05	4.34	3.36	1.93	2.18	2.95	3.08	2.89	2.52		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 69, 69B, 70, 75A, and 84A. Records began Jan. 1, 1939. STA AV based on 38 yr (1939-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.013	0.435	0.0	0.0	0.0	0.0	0.001	0.0 T
2	0.0	0.0	0.0	0.0	0.002	0.004	0.0	0.0	0.0	0.0	0.0	0.001
3	0.0	0.0	0.0	0.0	0.0 T	0.001	0.0	0.0	0.0	0.0	0.0	0.001
4	0.0	0.0	0.0	0.0	0.0	0.003	0.431	0.0	0.0	1.107	0.0	0.001
5	0.0	0.0	0.0	0.0	3.689	0.002	0.002	0.0	0.0	3.594	0.0	0.043
6	0.0	0.0	0.0	0.0	0.408	0.0	0.062	0.0	0.0	0.006	0.0	0.423
7	0.0	0.0	0.0	0.0	0.124	0.0	0.004	0.0	0.0	0.0	0.0	0.012
8	0.0	0.0	0.0	0.0	0.052	0.0	0.0	0.0	0.0	0.0	0.0	0.003
9	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.003
10	0.0	0.0	0.0	0.0	0.032	0.0	0.0	0.0	0.0	0.0	0.0	1.116
11	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	4.777
12	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.176
13	0.0	0.0	0.0	0.0	0.704	0.0	0.0	0.0	0.0	0.0	0.026	0.052
14	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.023	0.068
15	0.0	0.0	0.0	0.0	0.004	0.0	1.032	0.0	0.0	0.0	0.005	0.044
16	0.0	0.0	0.0	0.150	0.001	0.0	5.048	0.0	0.0	0.0	0.001	0.024
17	0.0	0.0	0.0	1.115	0.0	0.0	0.598	0.0	0.0	0.0	0.0	0.015
18	0.0	0.0	0.0	6.794	0.0	0.0	0.040	0.0	0.0	0.0	0.0	0.014
19	0.0	0.0	0.0	0.248	0.0	0.0	0.002	0.0	0.0	0.0	0.035	0.023
20	0.0	0.0	0.0	0.794	0.0	0.0	0.0	0.0	0.0	0.0	0.033	0.010
21	0.0	0.0	0.0	0.001	0.0	0.0	0.002	0.0	0.0	0.0	0.003	0.002
22	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.003
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003
25	0.0	0.0	0.0	0.0	1.128	0.008	0.0	0.0	0.0	0.0	0.087	0.003
26	0.0	0.0	0.0	0.0	0.077	0.0 T	0.0	0.0	0.0	0.0	0.103	0.002
27	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.003	0.003
28	0.0	0.0	0.0	0.475	0.0	0.0	0.0	0.0	1.019	0.0	0.0	0.003
29	0.0	0.0	0.0	3.410	0.0	0.0	0.0	0.0	0.0 T	2.027	0.0	0.002
30	0.0	0.0	0.0	0.031	0.0	0.0	0.0	0.0	0.0	0.164	0.0	0.003
31	0.0	0.0	0.0	0.0	5.258	0.0	0.0	0.0	0.0	0.010	0.0	0.002
MEAN	0.0	0.0	0.0	0.4339	0.3722	0.0151	0.2332	0.0	0.0340	0.2228	0.0106	0.2205
INCHES	0.0	0.0	0.0	2.347	2.080	0.082	1.303	0.0	0.184	1.246	0.058	1.233
STA AV	0.449	0.577	0.694	0.921	1.054	0.612	0.165	0.045	0.157	0.283	0.377	0.514

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.180316. Records began Jan. 1, 1939. STA AV based on 38 yr (1938-76) record period.

1976 SELECTED RUNOFF EVENT						RIESEL (WACO), TEXAS WATERSHED Y-2						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 5 - 6, 1976												
5- 5	RG 00069B 0.0	0.0	5- 5	RG 00069B 43	0.0	0.0	5- 5	739	0.0	0.0		
				102	0.0632	0.02		843	0.0	0.0		
				122	0.1200	0.06		951	0.004	0.0000		
				742	0.0079	0.11		1154	0.024	0.0002		
				912	0.0	0.11		1300	0.018	0.0004		
WATERSHED CONDITIONS:												
59% pasture, Beraudagrass and												
native grass, good cover,												
moderately grazed; 12% cotton;												
15% fall planted oats; 13%												
row grain sorghum; 1% gravel												
roads. Cropland terraced,												
cultivated on contour.												
				922	0.0600	0.12		1442	0.019	0.0006		
				932	0.1800	0.15		1547	0.021	0.0008		
				949	0.0	0.15		1742	0.035	0.0012		
				952	1.6000	0.23		1810	0.048	0.0014		
				1113	0.0519	0.30		1815	0.052	0.0014		
				1212	0.1119	0.41		1822	0.051	0.0014		
				1222	0.3600	0.47		1825	0.078	0.0015		
				1233	0.7091	0.60		1830	0.095	0.0015		
				1242	1.8000	0.87		1835	0.103	0.0016		
				1246	3.9000	1.13		1837	0.109	0.0016		
				1252	0.6000	1.19		1840	0.161	0.0016		
				1303	0.5455	1.29		1841	0.221	0.0017		
				1312	0.1333	1.31		1843	0.262	0.0017		
				1322	0.1200	1.33		1844	0.294	0.0018		
				1327	2.0400	1.50		1847	0.356	0.0019		
				1330	3.8000	1.69		1850	0.570	0.0020		
				1353	0.1826	1.76		1852	0.646	0.0022		
				1432	0.0	1.76		1855	0.817	0.0025		
				1617	0.0114	1.78		1858	1.012	0.0028		
				1622	0.4800	1.82		1900	1.149	0.0031		
								1903	1.413	0.0036		
								1904	1.730	0.0038		
								1906	3.073	0.0044		
								1908	7.300	0.0057		
								1910	10.209	0.0078		

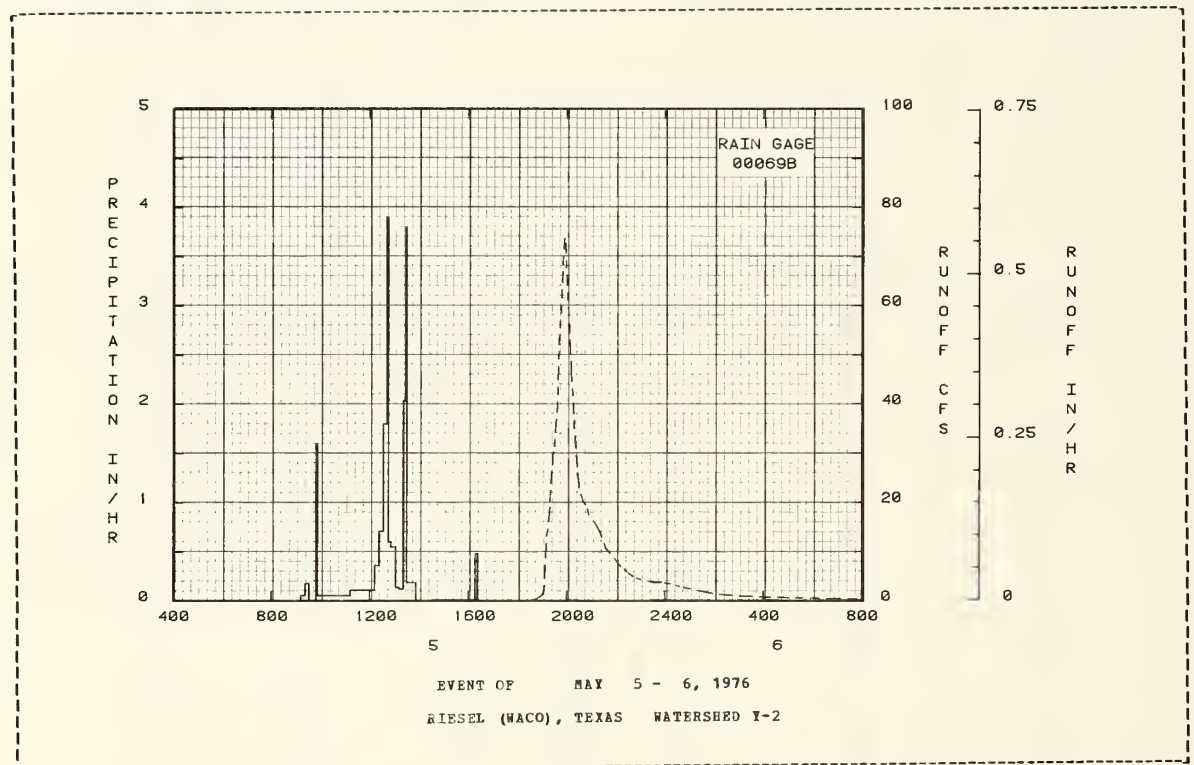
NOTES: To convert runoff in CPS to IN/HR, multiply by 0.007513.

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-2							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 5 - 6, 1976 (CONTINUED)										
							5- 5	1912	13.696	0.0108
								1915	14.563	0.0161
								1919	18.845	0.0245
								1921	22.441	0.0297
								1923	25.036	0.0356
								1924	26.364	0.0389
								1926	29.203	0.0458
								1928	30.248	0.0533
								1930	31.383	0.0610
								1933	34.564	0.0734
								1935	36.963	0.0823
								1937	39.338	0.0919
								1938	40.504	0.0969
								1940	47.673	0.1079
								1942	54.050	0.1207
								1946	58.593	0.1489
								1948	61.794	0.1639
								1950	65.457	0.1799
								1951	68.485	0.1883
								1953	72.185	0.2059
								1955	73.748	0.2241
								1957	72.600	0.2425
								1958	70.634	0.2514
								2001	65.557	0.2770
								2004	59.363	0.3005
								2006	55.926	0.3149
								2009	50.188	0.3348
								2011	47.229	0.3470
								2012	44.597	0.3528
								2016	39.587	0.3739
								2019	34.960	0.3879
								2021	32.534	0.3963
								2024	29.203	0.4079
								2026	27.226	0.4150
								2028	25.090	0.4215
								2031	22.952	0.4306
								2040	20.209	0.4549
								2046	19.519	0.4698
								2051	18.514	0.4817
								2055	17.439	0.4907
								2111	15.370	0.5236
								2126	12.994	0.5502
								2135	10.597	0.5635
								2145	9.628	0.5762
								2156	8.533	0.5887
								2211	6.890	0.6032
								2221	6.393	0.6115
								2226	5.872	0.6153
								2231	5.542	0.6189
								2241	4.854	0.6254
								2250	4.603	0.6307
								2301	4.303	0.6369
								2331	3.693	0.6519
								2351	3.678	0.6611
								2400	3.528	0.6652
							5- 6	11	3.338	0.6699
								31	2.978	0.6778
								35	2.886	0.6793
								45	2.643	0.6827
								101	2.331	0.6877
								130	1.818	0.6953
								156	1.456	0.7006
								226	1.179	0.7055
								316	0.892	0.7120
								400	0.700	0.7164
								501	0.541	0.7211
								559	0.430	0.7247
								651	0.321	0.7271
								749	0.275	0.7293
								859	0.185	0.7313
								957	0.161	0.7326
								1157	0.133	0.7348
								1354	0.081	0.7363
								1552	0.054	0.7373
								1745	0.031	0.7379

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.007513.

1976			SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSHED Y-2		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 5 - 6, 1976 (CONTINUED)											
							5- 6	1944	0.019	0.7383	
								2150	0.014	0.7386	
								2400	0.009	0.7388	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.007513.



RIESEL (WACO), TEXAS WATERSHED Y-6

LOCATION: Falls Co., Texas; 18 mi. SE of Waco,; Brazos River Basin. Lat. 31 deg. 28 min. 26 sec. N.; Long. 96 deg. 53 min. 09 sec. W.

AREA: 16.30 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								RIESEL (WACO), TEXAS WATERSHED Y-6								
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1976	P	0.13	0.90	2.71	9.05	7.20	1.93	5.78	0.13	5.60	5.45	1.62	2.82	43.32		
	Q	0.0	0.0	0.0	2.663	2.041	0.004	1.190	0.0	0.150	0.899	0.001	0.595	7.544		
STA AV	P	1.98	2.55	2.26	4.02	3.98	3.53	1.95	2.24	3.01	3.33	2.85	2.34	34.05		
	Q	0.296	0.351	0.354	0.689	0.744	0.590	0.157	0.049	0.136	0.355	0.354	0.349	4.454		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	1 Hour Date	2 Hours Date	Maximum Volume for Selected Time Interval								1 Day Date	2 Days Date	8 Days Date		
	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1976	5-31	1.256	5-31	0.772	5-31	0.850	5-31	0.867	4-18	1.168	4-18	1.753	4-18	1.885	4-12	1.942
MAXIMUMS FOR PERIOD OF RECORD																
	6-10	3.791	3-29	1.900	3-29	2.340	3-29	2.950	3-29	3.130	3-29	3.670	11-22	4.870	4-19	8.490
	1941		1965		1965		1965		1965		1965		1940		1957	

NOTES: Watershed conditions: 54% cotton; 4% other; 2% gravel roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 69B and 75A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976	DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS WATERSHED Y-6	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.22	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	1.05	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.32	0.0	0.0	0.0		
4	0.0	0.0	0.13	0.68	0.0	0.0	0.65	0.0	0.0	2.04	0.0	0.0		
5	0.0	0.02	0.0	0.56	1.94	0.0	1.03	0.0	0.0	0.86	0.0	0.69		
6	0.0	0.0	0.24	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.22		
7	0.0	0.0	0.50	0.56	0.24	0.0	0.01	0.0	0.0	0.09	0.0	0.0		
8	0.0	0.0	0.49	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.31	0.0	0.03	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	1.23		
11	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.58		
12	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.10	0.0		
13	0.0	0.0	0.10	0.0	0.03	0.0	0.04	0.0	0.0	0.0	0.13	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.49	0.0	0.22	0.10		
15	0.0	0.0	0.0	0.58	0.0	0.42	1.10	0.0	0.0	0.07	0.11	0.0		
16	0.0	0.0	0.0	0.60	0.0	0.0	1.77	0.09	0.0	0.10	0.0	0.0		
17	0.0	0.66	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	3.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.03	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.25	0.22	0.47	0.0		
20	0.0	0.22	0.0	0.49	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.42	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.06	0.0	0.75	0.08	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0		
25	0.0 1	0.0	0.0	0.0	1.57	1.16	0.0	0.0	0.0	0.0	0.59	0.0		
26	0.0	0.0	0.0	0.0	0.05	0.03	0.0	0.0	0.44	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	1.58	0.0	0.0	0.0	0.0	2.68	0.07	0.0	0.0		
29	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.04	0.0	1.92	0.0	0.0		
30	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.04	0.0	0.0	0.0	2.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.13	0.90	2.71	9.05	7.20	1.93	5.78	0.13	5.60	5.45	1.62	2.82		
STA AV	1.98	2.55	2.26	4.02	3.98	3.53	1.95	2.24	3.01	3.33	2.85	2.34		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 69B and 75A. Records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV values are based on 33 yr (1939-July 1943, May 1947-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-6												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.079	0.0	0.0	0.227	0.0	0.0
5	0.0	0.0	0.0	0.0	0.489	0.0	0.0	0.0	0.0	0.342	0.0	0.001
6	0.0	0.0	0.0	0.0	0.010	0.0	0.001	0.0	0.0	0.0	0.0	0.002
7	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.080
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.322
12	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.003
13	0.0	0.0	0.0	0.0	0.031	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
15	0.0	0.0	0.0	0.0	0.0	0.0	0.094	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.008	0.0	0.0	0.638	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	1.186	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.249	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
26	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.108	0.0	0.0	0.0	0.0	0.103	0.0	0.0	0.0
29	0.0	0.0	0.0	0.386	0.0	0.0	0.0	0.0	0.0	0.045	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0
31	0.0	0.0	0.0	0.0	0.593	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0608	0.0451	0.0001	0.0263	0.0	0.0034	0.0199	0.0	0.0132
INCHES	0.0	0.0	0.0	2.663	2.041	0.004	1.190	0.0	0.150	0.899	0.001	0.595
STA AV	0.296	0.351	0.388	0.689	0.744	0.590	0.157	0.049	0.136	0.355	0.354	0.349

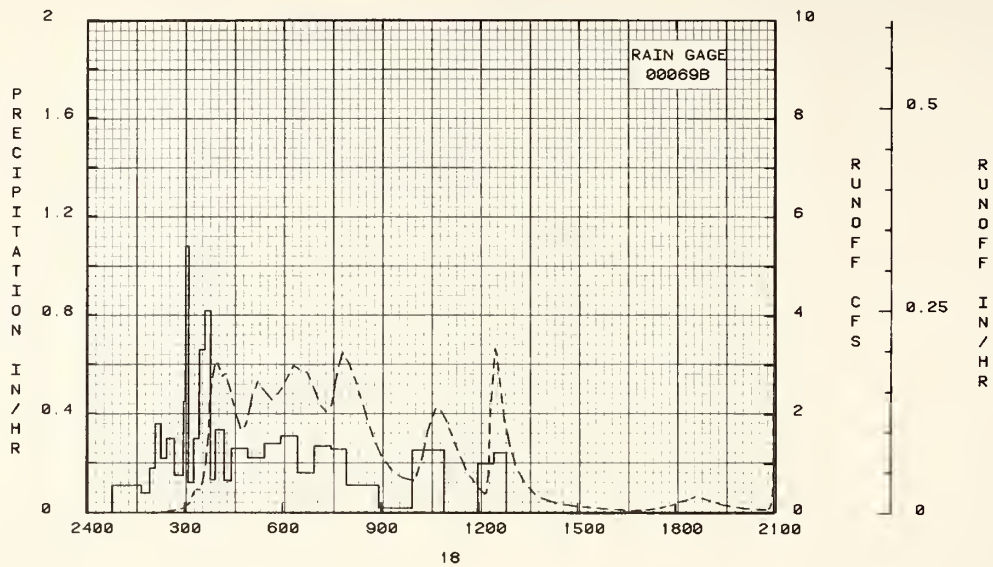
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.460224. Records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV values are based on 33 yr (1939-July 1943, May 1947-76) record period.

1976 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED Y-6										
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Fainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 18, 1976										
RG 00069B										
4-18	0.0	0.0	4-18	47	0.0	0.0	4-18	151	0.0	0.0
				141	0.1111	0.10		154	0.0	0.0
				156	0.0800	0.12		159	0.001	0.0
				206	0.1800	0.15		204	0.002	0.0000
				216	0.3600	0.21		209	0.004	0.0000
WATERSHED CONDITIONS: 94% cotton; 4% other; 2% gravel roads. Cropland terraced, cultivated on contour.										
				227	0.2182	0.25		214	0.012	0.0001
				241	0.3000	0.32		219	0.017	0.0001
				257	0.1500	0.36		224	0.020	0.0002
				301	0.4500	0.39		229	0.036	0.0004
				306	1.0800	0.48		244	0.059	0.0011
				316	0.1200	0.50		254	0.087	0.0018
				326	0.3000	0.55		259	0.106	0.0023
				336	0.6600	0.66		304	0.161	0.0030
				347	0.8182	0.81		309	0.198	0.0039
				356	0.1333	0.83		314	0.328	0.0052
				412	0.3375	0.92		317	0.431	0.0064
				426	0.1286	0.95		322	0.476	0.0087
				456	0.2600	1.08		328	0.471	0.0116
				526	0.2200	1.19		332	0.568	0.0137
				556	0.2800	1.33		336	0.832	0.0165
				627	0.3097	1.49		339	1.052	0.0194
				657	0.1600	1.57		343	1.576	0.0247
				728	0.2710	1.71		346	2.269	0.0306
				756	0.2571	1.83		349	2.586	0.0379
				856	0.1100	1.94		354	2.965	0.0520
				957	0.0197	1.96		359	3.031	0.0672
				1056	0.2542	2.21		404	2.899	0.0822
				1157	0.0	2.21		409	2.756	0.0966
				1227	0.2000	2.31		414	2.819	0.1107
				1249	0.2455	2.40		424	2.453	0.1374

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.060843.

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-6							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF APRIL 18, 1976 (CONTINUED)										
							4-18	434	1.970	0.1599
								442	1.698	0.1748
								450	1.740	0.1887
								454	1.847	0.1960
								459	2.121	0.2060
								504	2.381	0.2174
								514	2.662	0.2430
								524	2.482	0.2691
								540	2.283	0.3078
								558	2.527	0.3517
								619	2.981	0.4103
								629	2.899	0.4401
								644	2.835	0.4837
								659	2.439	0.5238
								709	2.157	0.5471
								719	2.039	0.5684
								729	2.181	0.5898
								734	2.541	0.6018
								739	2.819	0.6154
								744	3.082	0.6303
								749	3.254	0.6464
								800	3.031	0.6814
								815	2.601	0.7243
								830	2.027	0.7595
								845	1.537	0.7866
								900	1.155	0.8070
								920	0.845	0.8273
								940	0.701	0.8430
								1000	0.649	0.8567
								1005	0.749	0.8602
								1010	0.927	0.8645
								1015	1.122	0.8697
								1020	1.405	0.8761
								1025	1.657	0.8838
								1030	1.825	0.8927
								1040	2.109	0.9126
								1050	2.062	0.9338
								1100	1.836	0.9535
								1115	1.414	0.9783
								1135	0.865	1.0014
								1200	0.490	1.0185
								1210	0.381	1.0230
								1212	0.410	1.0238
								1214	0.485	1.0247
								1217	0.859	1.0267
								1219	1.814	1.0294
								1222	2.325	1.0357
								1225	2.787	1.0435
								1227	3.133	1.0495
								1229	3.343	1.0561
								1233	3.031	1.0690
								1237	2.709	1.0806
								1242	2.230	1.0932
								1246	1.836	1.1014
								1252	1.557	1.1117
								1256	1.351	1.1176
								1306	0.970	1.1294
								1322	0.627	1.1424
								1342	0.377	1.1525
								1356	0.287	1.1572
								1421	0.200	1.1634
								1457	0.143	1.1697
								1542	0.097	1.1752

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.060843.



RIESEL (WACO), TEXAS WATERSHED Y-8

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 22 sec. N.; Long. 96 deg. 52 min. 54 sec. W.

AREA: 20.90 acres

MONTHLY PRECIPITATION AND HUNOFF (inches)								RIESEL (WACO), TEXAS WATERSHED Y-8									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.13	0.94	3.19	10.20	7.85	2.07	6.47	0.11	5.62	5.85	1.66	2.97	47.06			
	Q	0.0	0.0	0.0	0.873	1.020	0.115	1.675	0.0	0.737	1.405	0.055	1.297	7.175			
STA AV	P	1.92	2.56	2.35	4.14	3.91	3.65	2.03	2.25	3.11	3.47	2.89	2.36	34.63			
	Q	0.331	0.394	0.456	0.736	0.776	0.634	0.203	0.062	0.206	0.340	0.390	0.418	4.945			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		9-26	1.118	9-28	0.455	9-28	0.539	10- 4	0.822	10- 4	0.920	12-10	0.985	7-15	1.353	9-28	1.683
MAXIMUMS FOR PERIOD OF RECORD																	
		6-10	3.290	4-19	2.410	4-19	2.800	4-23	3.320	4-23	3.370	3-29	3.590	11-22	5.640	4-15	5.100
		1941		1957		1957		1957		1957		1965		1940		1957	

NOTES: Watershed conditions: 94% fall planted oats; 4% other; 2% gravel roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Mar. 1, 1939; station not in operation July 1943 to Jan. 1, 1949; part-year amounts not included in averages. Precipitation data obtained from rain gage 75A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976	DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS WATERSHED Y-8	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.21	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	1.14	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.37	0.0	0.0	0.0		
4	0.0	0.0	0.14	0.69	0.0	0.0	1.76	0.0	0.0	2.15	0.0	0.0		
5	0.0	0.02	0.0	0.60	2.19	0.0	0.0	0.0	0.0	0.91	0.0	0.72		
6	0.0	0.0	0.29	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.29		
7	0.0	0.0	0.50	0.61	0.29	0.0	0.0	0.0	0.0	0.05	0.0	0.0		
8	0.0	0.0	0.56	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	1.28		
11	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.57		
12	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0	0.0	0.19	0.0		
13	0.0	0.0	0.10	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.10	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.47	0.0	0.21	0.11		
15	0.0	0.0	0.0	0.63	0.0	0.43	1.29	0.0	0.0	0.06	0.10	0.0		
16	0.0	0.0	0.0	0.69	0.0	0.0	1.99	0.08	0.0	0.04	0.0	0.0		
17	0.0	0.58	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	3.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.02	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.26	6.32	0.53	0.0		
20	0.0	0.24	0.0	0.54	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.53	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.07	0.0	0.88	0.05	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0		
25	0.01	0.0	0.0	0.0	1.72	1.37	0.0	0.0	0.0	0.0	0.62	0.0		
26	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.46	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	1.87	0.0	0.0	0.0	0.0	2.49	0.07	0.0	0.0		
29	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.63	0.0	2.18	0.0	0.0		
30	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.03	0.0	0.0	0.0	2.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	6.13	0.94	3.19	10.20	7.85	2.07	6.47	0.11	5.62	5.65	1.66	2.97		
STA AV	1.92	2.56	2.35	4.14	3.91	3.65	2.03	2.28	3.11	3.47	2.89	2.36		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 75A. Records began Mar. 1, 1939; station not in operation July 1943 to Jan. 1, 1949; part-year amounts not included in averages. STA AV based on 31 yr (1939-July 1943, Jan. 1949-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-8												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.055	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.210	0.0	0.0	0.275	0.0	0.0
5	0.0	0.0	0.0	0.0	0.409	0.0	0.0	0.0	0.0	0.552	0.0	0.008
6	0.0	0.0	0.0	0.0	0.023	0.0	0.059	0.0	0.0	0.002	0.0	0.045
7	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.005
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.171
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.726
12	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.067
13	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.001	0.020
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.029
15	0.0	0.0	0.0	0.0	0.0	0.0	0.316	0.0	0.0	0.0	0.0	0.017
16	0.0	0.0	0.0	0.006	0.0	0.0	0.735	0.0	0.0	0.0	0.0	0.010
17	0.0	0.0	0.0	0.0	0.0	0.0	0.132	0.0	0.0	0.0	0.0	0.006
18	0.0	0.0	0.0	0.322	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.008
19	0.0	0.0	0.0	0.062	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.014
20	0.0	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.003
21	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.001	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.001
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.012	0.045	0.0	0.0	0.0	0.0	0.017	0.001
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
28	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.643	0.0	0.0	0.0
29	0.0	0.0	0.0	0.351	0.0	0.0	0.0	0.0	0.0	0.356	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.041	0.0	0.0
31	0.0	0.0	0.0	0.0	0.443	0.0	0.0	0.0	0.0	0.002	0.0	0.0
MEAN	0.0	0.0	0.0	0.0254	0.0287	0.0033	0.0472	0.0	0.0215	0.0396	0.0016	0.0366
INCHES	0.0	0.0	0.0	0.873	1.020	0.115	1.675	0.0	0.737	1.405	0.055	1.297
STA AV	0.331	0.394	0.456	0.736	0.775	0.634	0.203	0.062	0.206	0.340	0.390	0.418

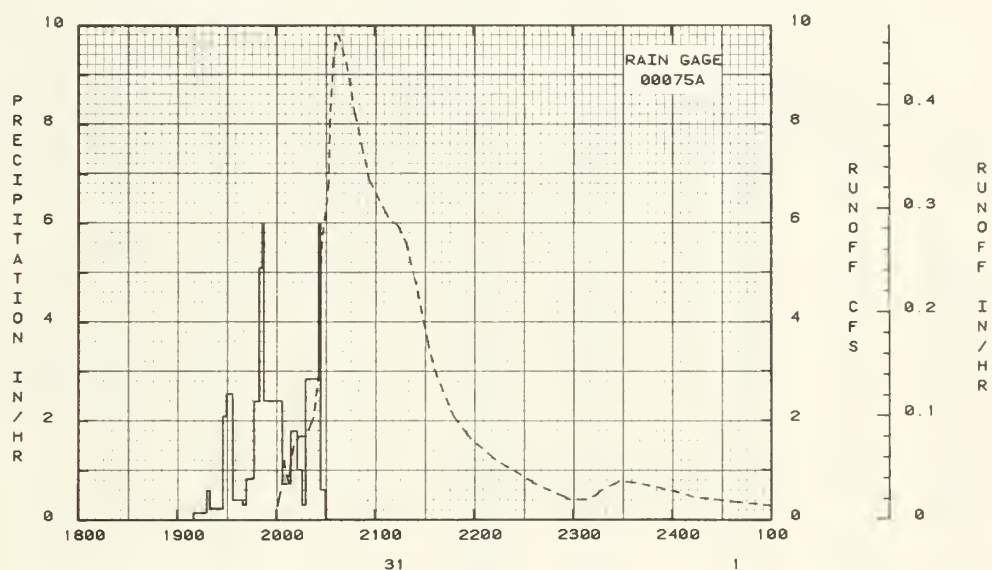
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.144310. Records began Mar. 1, 1939; station not in operation 1943 to Jan. 1, 1949; part-year amounts not included in averages. STA AV based on 31 yr (1935-July 1943, Jan. 1949-76) record period.

1976 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED Y-8												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 31 - JUNE 1, 1976												
RG 00075A			RG 00075A									
5-31	0.41	0.0	5-31	1910	0.0	0.0	5-31	2000	0.0	0.0		
				1918	0.1499	0.02		2002	0.423	0.0003		
				1920	0.6001	0.04		2004	0.766	0.0013		
				1928	0.2250	0.07		2005	1.156	0.0021		
				1930	2.1002	0.14		2007	0.857	0.0037		
WATERSHED CONDITIONS: 94% fall planted oats; 4% other; 2% gravel roads. Cropland terraced, culti- vated on contour.												
				1934	2.5500	0.31		2008	0.736	0.0043		
				1940	0.3999	0.35		2009	1.158	0.0051		
				1942	0.3003	0.36		2011	1.504	0.0072		
				1947	0.8399	0.43		2014	1.690	0.0110		
				1950	2.4002	0.55		2018	1.650	0.0164		
				1952	5.1012	0.72		2023	2.068	0.0238		
				1953	5.9955	0.82		2026	2.958	0.0298		
				1957	2.4001	0.98		2027	4.719	0.0329		
				2004	2.4000	1.26		2028	5.618	0.0370		
				2009	0.7200	1.32		2032	6.740	0.0566		
				2013	1.8002	1.44		2033	8.116	0.0625		
				2016	0.9998	1.49		2035	9.364	0.0764		
				2018	0.3003	1.50		2038	9.831	0.0893		
				2022	2.8500	1.69		2043	9.226	0.1372		
				2026	2.8498	1.88		2048	8.219	0.1718		
				2027	5.9960	1.98		2053	7.429	0.2029		
				2030	0.6000	2.01		2057	6.861	0.2256		
				2400	0.0086	2.04		2108	6.123	0.2824		
								2114	5.937	0.3111		
								2119	5.595	0.3340		
								2125	4.762	0.3587		
								2133	3.474	0.3849		
								2138	2.869	0.3975		
								2148	2.084	0.4172		
								2158	1.632	0.4315		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.047680.

1976	SELECTED RUNOFF EVENT					RIESEL (WACO), TEXAS					WATERSHED Y-8	
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF												
			MAY	31 -	JUNE	1, 1976	(CONTINUED)					
							5-31	2213	1.209	0.4489		
								2238	0.704	0.4679		
								2258	0.405	0.4767		
								2308	0.405	0.4799		
								2313	0.476	0.4817		
								2318	0.611	0.4838		
								2328	0.768	0.4893		
								2338	0.736	0.4953		
								2400	0.581	0.5068		
							6- 1	13	0.449	0.5121		
								38	0.346	0.5200		
								59	0.284	0.5253		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.047680.



EVENT OF MAY 31 - JUNE 1, 1976
RIESEL (WACO), TEXAS WATERSHED Y-8

RISSEL (WACO), TEXAS WATERSHED Y-10

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 31 sec. N.; Long. 96 deg. 53 min. 10 sec. W.

AREA: 18.60 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								RISSEL (WACO), TEXAS WATERSHED Y-10											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	0.14	0.85	2.52	8.40	6.89	1.87	5.42	0.12	5.48	5.25	1.56	2.80	41.30					
	Q	0.0	0.0	0.0	3.813	1.809	0.031	0.644	0.0	0.127	1.858	0.005	1.687	9.975					
STA AV	P	2.05	2.47	2.29	4.00	3.98	3.43	1.91	2.21	3.01	3.22	2.80	2.38	33.75					
	Q	0.394	0.399	0.520	0.929	0.788	0.683	0.187	0.076	0.276	0.390	0.428	0.455	5.527					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		5-31	1.030	5-31	0.728	5-31	0.783	4-18	1.234	4-18	1.765	4-18	2.596	4-18	2.906	4-12	2.988		
MAXIMUMS FOR PERIOD OF RECORD																			
		4-19	3.730	4-19	2.900	4-19	3.480	3-29	4.130	3-29	4.270	3-29	4.620	4-23	5.340	4-19	10.570		
		1957		1957		1957		1965		1965		1965		1957		1957			

NOTES: Watershed conditions: 94% sorghum; 3% other; 3% gravel roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 69 and 69B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976 DAILY PRECIPITATION (inches)													RISSEL (WACO), TEXAS WATERSHED Y-10	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.99	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.30	0.0	0.0	0.0		
4	0.0	0.0	0.14	0.68	0.0	0.0	0.56	0.0	0.0	1.99	0.0	0.0		
5	0.0	0.02	0.0	0.55	1.79	0.0	1.02	0.0	0.0	0.80	0.0	0.0		0.67
6	0.0	0.0	0.24	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0		0.18
7	0.0	0.0	0.46	0.55	0.24	0.0	0.03	0.0	0.0	0.12	0.0	0.0		0.0
8	0.0	0.0	0.45	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0		0.0
9	0.0	0.0	0.0	0.0	0.30	0.0	0.03	0.0	0.0	0.0	0.0	0.0		0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0		1.28
11	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.59
12	0.0	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.0	0.12	0.0		0.0
13	0.0	0.0	0.11	0.0	0.03	0.0	0.05	0.0	0.0	0.0	0.0	0.16		0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.49	0.0	0.23	0.08		0.0
15	0.0	0.0	0.0	0.51	0.0	0.41	1.03	0.0	0.0	0.07	0.07	0.0		0.0
16	0.0	0.0	0.0	0.53	0.0	0.0	1.61	0.08	0.0	0.13	0.0	0.0		0.0
17	0.0	0.62	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0		0.0
18	0.0	0.0	0.0	3.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
19	0.03	0.0	0.0	0.01	0.0	0.09	0.0	0.0	0.25	0.18	0.44	0.0		0.0
20	0.0	0.21	0.0	0.44	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0		0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0		0.0
22	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0		0.0
23	0.0	0.0	0.40	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
24	0.04	0.0	0.64	0.09	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0		0.0
25	0.03	0.0	0.0	0.0	1.52	1.07	0.0	0.0	0.0	0.0	0.54	0.0		0.0
26	0.0	0.0	0.0	0.0	0.05	0.05	0.0	0.0	0.44	0.0	0.0	0.0		0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
28	0.0	0.0	0.0	1.38	0.0	0.0	0.0	0.0	2.66	0.07	0.0	0.0		0.0
29	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.03	0.0	1.79	0.0	0.0		0.0
30	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0		0.0
31	0.04	0.0	0.0	0.0	2.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.14	0.85	2.52	8.40	6.89	1.87	5.42	0.12	5.48	5.25	1.56	2.80		
STA AV	2.05	2.47	2.29	4.00	3.98	3.43	1.91	2.21	3.01	3.22	2.80	2.38		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 69 and 69B. Records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 34 yr (1938-July 1943, May 1946-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED T-10												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.024	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.316	0.0	0.0
5	0.0	0.0	0.0	0.0	0.413	0.0	0.0	0.0	0.0	0.679	0.0	0.003
6	0.0	0.0	0.0	0.0	0.024	0.0	0.0	0.0	0.0	0.001	0.0	0.023
7	0.0	0.0	0.0	0.0	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.480
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.793
12	0.0	0.0	0.0	0.0	0.027	0.0	0.0	0.0	0.0	0.0	0.0	0.014
13	0.0	0.0	0.0	0.0	0.120	0.0	0.0	0.0	0.0	0.0	0.0	0.001
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003
15	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0	0.0	0.001
16	0.0	0.0	0.0	0.001	0.0	0.0	0.468	0.0	0.0	0.0	0.0	0.0 T
17	0.0	0.0	0.0	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	1.985	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.259	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.145	0.0	0.0	0.0	0.0	0.0	0.003	0.0
26	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.001	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.157	0.0	0.0	0.0	0.0	0.099	0.0	0.0	0.0
29	0.0	0.0	0.0	0.488	0.0	0.0	0.0	0.0	0.0	0.421	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.034	0.0	0.0
31	0.0	0.0	0.0	0.0	0.635	0.0	0.0	0.0	0.0	0.001	0.0	0.0
MEAN	0.0	0.0	0.0	0.0393	0.0456	0.0008	0.0162	0.0	0.0033	0.0468	0.0001	0.0425
INCHES	0.0	0.0	0.0	3.813	1.809	0.031	0.644	0.0	0.127	1.858	0.005	1.687
STA AV	0.394	0.399	0.520	0.929	0.788	0.683	0.187	0.076	0.276	0.390	0.428	0.455

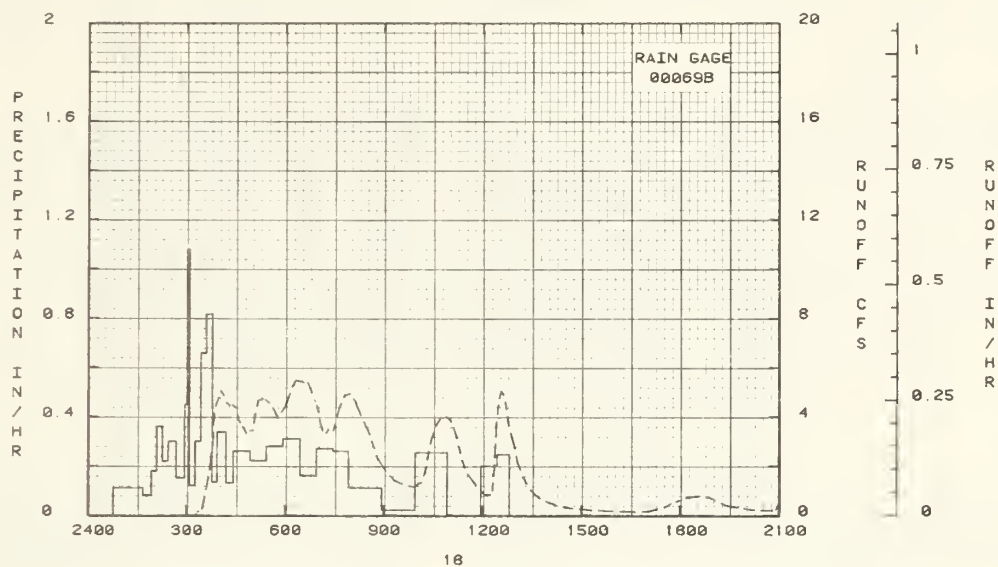
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.279659. Records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 34 yr (1938-July 1943, May 1946-76) record period.

1976 /SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED T-10												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF APRIL 18, 1976												
RG 00069B												
4-18	0.0	0.0	4-18	47	0.0	0.0	4-18	316	0.0	0.0		
				141	0.1111	0.10		318	0.045	0.0000		
				156	0.0800	0.12		322	0.145	0.0004		
				206	0.1300	0.15		323	0.172	0.0005		
				216	0.3600	0.21		329	0.259	0.0017		
WATERSHED CONDITIONS:												
94% sorghum; 3% other;												
3% gravel roads. Cropland												
terraced, contour culti-												
vation.												
				227	0.2182	0.25		334	0.750	0.0039		
				241	0.3000	0.32		338	1.248	0.0075		
				257	0.1500	0.36		344	2.112	0.0164		
				301	0.4500	0.39		346	2.535	0.0205		
				306	1.0800	0.48		349	3.063	0.0280		
				316	0.1200	0.50		351	4.153	0.0344		
				326	0.3000	0.55		353	4.437	0.0420		
				336	0.6600	0.66		359	4.781	0.0666		
				347	0.8182	0.81		403	5.044	0.0841		
				356	0.1333	0.83		409	4.852	0.1105		
				412	0.3375	0.92		413	4.573	0.1272		
				426	0.1286	0.95		419	4.437	0.1512		
				456	0.2600	1.08		424	4.482	0.1710		
				526	0.2200	1.19		429	4.370	0.1907		
				556	0.2800	1.33		438	3.719	0.2231		
				627	0.3097	1.49		443	3.581	0.2393		
				657	0.1600	1.57		449	3.316	0.2577		
				728	0.2710	1.71		456	3.447	0.2787		
				756	0.2571	1.83		502	3.447	0.2971		
				856	0.1100	1.94		506	4.153	0.3106		
				957	0.0197	1.96		511	4.688	0.3302		
				1056	0.2542	2.21		519	4.734	0.3637		
				1157	0.0	2.21		524	4.688	0.3846		
				1227	0.2000	2.31		530	4.573	0.4093		
				1249	0.2455	2.40		539	4.304	0.4448		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.053319.

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-10							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 18, 1976 (CONTINUED)										
				4-18			547		3.921	0.4741
							600		4.437	0.5224
							609		4.971	0.5600
							619		5.495	0.6065
							634		5.392	0.6790
							642		5.367	0.7173
							649		4.971	0.7494
							658		4.459	0.7871
							708		3.428	0.8222
							714		3.334	0.8402
							719		3.485	0.8554
							728		3.428	0.8830
							738		4.260	0.9172
							748		4.876	0.9577
							758		4.947	1.0014
							808		4.595	1.0438
							818		4.046	1.0822
							834		3.260	1.1341
							849		2.281	1.1711
							903		1.799	1.1964
							919		1.399	1.2192
							934		1.258	1.2369
							954		1.144	1.2582
							1009		1.327	1.2747
							1014		1.666	1.2814
							1020		2.310	1.2920
							1027		3.081	1.3087
							1036		3.679	1.3358
							1044		3.983	1.3630
							1054		4.004	1.3985
							1103		3.799	1.4297
							1114		3.099	1.4634
							1123		2.195	1.4846
							1134		1.631	1.5033
							1148		1.209	1.5209
							1204		0.814	1.5353
							1214		0.836	1.5426
							1219		1.012	1.5467
							1221		1.750	1.5492
							1224		2.908	1.5554
							1226		3.799	1.5614
							1229		4.482	1.5724
							1234		5.044	1.5936
							1238		4.876	1.6112
							1242		4.573	1.6280
							1244		4.282	1.6359
							1248		3.620	1.6499
							1253		3.206	1.6651
							1259		2.677	1.6807
							1304		2.153	1.6915
							1309		1.811	1.7003
							1314		1.518	1.7077
							1329		0.970	1.7243
							1344		0.676	1.7352
							1359		0.515	1.7432
							1414		0.390	1.7492
							1429		0.306	1.7538
							1444		0.273	1.7577
							1459		0.236	1.7611
							1519		0.201	1.7650
							1544		0.176	1.7691
							1614		0.150	1.7735
							1639		0.141	1.7767

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.053319.



EVENT OF APRIL 18, 1976
RIESEL (WACO), TEXAS WATERSHED Y-10

RIESEL (WACO), TEXAS WATERSHED SW-12

LOCATION: McLennan Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 48 sec. N.; Long. 96 deg. 52 min. 59 sec. W.

AREA: 2.97 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)									RIESEL (WACO), TEXAS WATERSHED SW-12										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	0.15	0.30	2.36	8.28	7.12	1.88	5.50	0.10	5.28	5.30	1.51	2.93	41.21					
	Q	0.0	0.0	0.0	2.756	2.851	0.011	1.102	0.0	0.005	0.529	0.026	2.145	9.426					
STA AV	P	2.04	2.55	2.24	4.02	3.91	3.49	1.92	2.16	2.99	3.22	2.79	2.35	33.68					
	Q	0.476	0.621	0.625	0.751	0.685	0.458	0.109	0.016	0.121	0.157	0.256	0.436	4.710					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		5-31	2.172	5-31	1.345	5-31	1.443	5-31	1.477	12-10	1.561	4-18	1.772	4-18	1.909	12- 5	2.136		
MAXIMUMS FOR PERIOD OF RECORD																			
		6- 3	4.403	3-29	3.070	3-29	3.830	3-29	4.620	3-29	4.800	3-29	5.340	3-29	5.390	4-15	8.530		
		1973		1965		1965		1965		1965		1965		1965		1957			

NOTES: Watershed conditions: 100% native grass meadow mowed annually for hay. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.24-4. Precipitation and runoff records began Jan. 1, 1938; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. Precipitation data obtained from rain gage 70. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976 DAILY PRECIPITATION (inches) RIESEL (WACO), TEXAS WATERSHED SW-12													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	1.01	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.35	0.0	0.0	0.0	
4	0.0	0.0	0.12	0.91	0.0	0.0	1.45	0.0	0.0	2.04	0.0	0.0	
5	0.0	0.73	0.0	0.31	1.86	0.0	0.0	0.0	0.0	0.79	0.0	0.69	
6	0.0	0.0	0.25	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.19	
7	0.0	0.0	0.42	0.58	0.29	0.0	0.34	0.0	0.0	0.17	0.0	0.0	
8	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	1.37	
11	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.58	
12	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.11	0.0	
13	0.0	0.0	0.09	0.0	0.08	0.0	0.01	0.0	0.0	0.0	0.15	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.52	0.0	0.20	0.10	
15	0.0	0.0	0.0	0.63	0.0	0.32	1.15	0.0	0.0	0.05	0.0	0.0	
16	0.0	0.0	0.0	0.41	0.0	0.0	1.65	0.06	0.0	0.10	0.0	0.0	
17	0.0	0.55	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	3.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.04	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.27	0.16	0.49	0.0	
20	0.0	0.22	0.0	0.43	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.47	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.53	0.07	0.0	0.03	0.0	0.0	0.0	0.12	0.0	0.0	
25	0.09	0.0	0.0	0.0	1.65	1.18	0.0	0.0	0.0	0.0	0.56	0.0	
26	0.0	0.0	0.0	0.0	0.08	0.03	0.0	0.0	0.42	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	1.28	0.0	0.0	0.0	0.0	2.36	0.05	0.0	0.0	
29	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.02	0.0	1.82	0.0	0.0	
30	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.02	0.0	0.0	0.0	2.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.15	0.60	2.36	6.28	7.12	1.86	5.50	0.10	5.28	5.30	1.51	2.93	
STA AV	2.04	2.55	2.24	4.02	3.91	3.49	1.92	2.16	2.99	3.22	2.79	2.35	

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 70. Records began Jan. 1, 1938; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. STA AV values are based on 34 yr record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED SW-12												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.112	0.0	0.0	0.0	0.015	0.0	0.098
6	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.032
7	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.002
8	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.124
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.098
12	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.002
13	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
15	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.001	0.0	0.0	0.130	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.217	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.028	0.0	0.0	0.0	0.0	0.0	0.002	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
29	0.0	0.0	0.0	0.093	0.0	0.0	0.0	0.0	0.0	0.049	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
31	0.0	0.0	0.0	0.0	0.184	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0115	0.0115	0.0	0.0044	0.0	0.0	0.0021	0.0001	0.0086
INCHES	0.0	0.0	0.0	2.756	2.851	0.011	1.102	0.0	0.005	0.529	0.026	2.145
STA AV	0.476	0.521	0.625	0.751	0.685	0.456	0.105	0.016	0.121	0.157	0.256	0.436

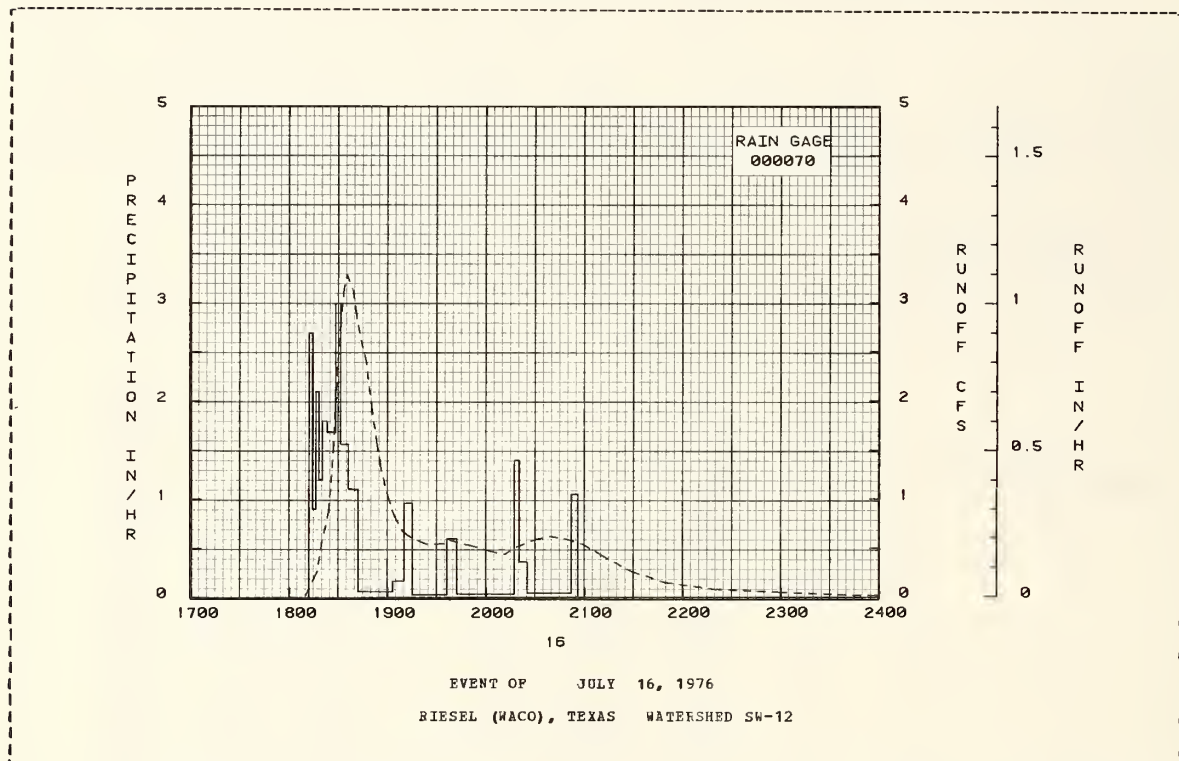
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.014025. Records began Jan. 1, 1938; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. STA AV values are based on 34 yr record period.

1976	SELECTED RUNOFF EVENT					RIESEL (WACO), TEXAS WATERSHED SW-12						
ANTECEDENT CONDITIONS			RAINFALL				FONCFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 16, 1976												
BG 000070			BG 000070									
7-16	0.40	0.056	7-16	1812	0.0	0.0	7-16	1810	0.026	0.0		
				1814	2.6999	0.09		1817	0.268	0.0057		
				1816	0.9060	0.12		1820	0.567	0.0129		
				1818	2.1002	0.19		1824	0.879	0.0292		
				1820	1.1996	0.23		1827	1.550	0.0498		
WATERSHED CONDITIONS: 100% native grass meadow, 12 to 14 inches.				1823	1.7999	0.32		1829	2.272	0.0713		
				1828	1.6600	0.46		1831	2.771	0.0994		
				1831	3.0002	0.61		1833	3.111	0.1321		
				1836	1.5599	0.74		1835	3.286	0.1677		
				1842	1.1000	0.85		1839	3.117	0.2350		
				1903	0.0572	0.87		1841	2.839	0.2721		
				1910	0.1715	0.39		1847	2.374	0.3592		
				1915	0.9606	0.97		1850	1.938	0.3552		
				1936	0.0286	0.96		1854	1.500	0.4334		
				1942	0.6000	1.04		1856	1.293	0.4490		
				2017	0.0343	1.06		1900	1.034	0.4749		
				2020	1.3998	1.13		1904	0.820	0.4955		
				2025	0.3602	1.16		1905	0.671	0.5162		
				2052	0.0444	1.18		1914	0.606	0.5240		
				2056	1.0501	1.25		1924	0.543	0.5661		
								1924	0.548	0.5964		
								1938	0.580	0.6090		
								1954	0.514	0.6577		
								2002	0.473	0.6797		
								2011	0.440	0.7025		
								2019	0.516	0.7238		
								2030	0.594	0.7576		
								2038	0.615	0.7681		
								2049	0.594	0.8217		
								2059	0.539	0.8532		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.333918.

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-12								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 16, 1976 (CONTINUED)											
							7-16	2114	0.389	0.8920	
								2129	0.257	0.9189	
								2149	0.154	0.9416	
								2219	0.083	0.9616	
								2259	0.045	0.9758	
								2344	0.024	0.9845	
								2400	0.021	0.9865	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.333918.



RIESEL (WACO), TEXAS WATERSHED SW-17

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 45 sec. N.; Long. 96 deg. 53 min. 14 sec. W.

AREA: 2.99 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED SW-17	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P	0.18	1.12	2.55	8.74	7.09	1.83	6.49	0.15	6.47	4.90	1.58	2.76	43.86	
	Q	0.0	0.001	0.007	3.066	2.382	0.096	1.706	0.0	0.338	1.632	0.004	1.326	10.558	
STA AV	P	1.95	2.58	2.27	4.13	3.85	3.45	2.02	2.33	3.12	3.41	2.90	2.39	34.42	
	Q	0.441	0.649	0.695	1.024	0.833	0.757	0.234	0.081	0.309	0.407	0.524	0.564	6.537	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	6 Hours	12 Hours	Date	Vol.	Date	Vol.	Date	Vol.
1976		7-16	1.453	7-16	0.794	7-16	0.985	7-16	1.285	7-16	1.385	4-18	1.923	4-18	2.087
MAXIMUMS FOR PERIOD OF RECORD															
		10-31	7.063	4-19	2.540	4-19	2.960	4-23	3.310	3-29	3.520	3-29	4.250	11-22	5.370
		1940		1957		1957		1957		1965		1965		1940	1957

NOTES: Watershed conditions: 100% Bermudagrass pasture. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, OSDA Misc. Pub. 945, p. 42.28-5. Precipitation and runoff record began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1948; part-year amounts not included in averages. Precipitation data obtained from rain gage W-2. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED SW-17	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
	1	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.27	0.0	0.0	0.0		
	2	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	1.04	0.0	0.0	0.0		
	3	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.41	0.0	0.0	0.0		
	4	0.0	0.0	0.07	0.81	0.0	0.0	1.50	0.0	0.0	1.63	0.0	0.0		
	5	0.0	0.02	0.0	0.43	2.03	0.0	0.0	0.0	0.0	0.83	0.0	0.0		0.57
	6	0.0	0.0	0.26	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.22		
	7	0.0	0.0	0.44	0.58	0.35	0.0	0.0	0.0	0.0	0.08	0.0	0.0		
	8	0.0	0.0	0.45	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0		
	9	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0		1.27
	11	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.60
	12	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.10		0.0
	13	0.0	0.0	0.09	0.0	0.03	0.0	0.03	0.0	0.0	0.0	0.18	0.0		0.6
	14	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.35	0.0	0.24	0.10		0.10
	15	0.0	0.0	0.0	0.51	0.0	0.43	1.14	0.0	0.0	0.07	0.06	0.0		0.0
	16	0.0	0.0	0.0	0.66	0.0	0.0	1.95	0.10	0.0	0.15	0.0	0.0		0.0
	17	0.0	0.84	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0		0.0
	18	0.0	0.0	0.0	3.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
	19	0.02	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.27	0.20	0.48	0.0		0.0
	20	0.0	0.25	0.0	0.52	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0		0.0
	21	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0		0.0
	22	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0		0.0
	23	0.0	0.0	0.48	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
	24	0.04	0.0	0.68	0.02	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0		0.0
	25	0.09	0.0	0.0	0.0	1.74	1.11	0.0	0.0	0.0	0.0	0.52	0.0		0.0
	26	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.41	0.0	0.0	0.0		0.0
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
	28	0.0	0.0	0.0	1.53	0.0	0.0	0.0	0.0	3.48	0.04	0.0	0.0		0.0
	29	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.03	0.0	1.78	0.0	0.0		0.0
	30	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0		0.0
	31	0.03	0.0	0.0	0.0	1.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL		0.18	1.12	2.55	8.74	7.09	1.63	6.49	0.15	6.47	4.90	1.53	2.76		
STA AV		1.95	2.58	2.27	4.13	3.66	3.45	2.02	2.33	3.12	3.41	2.90	2.39		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W-2. Records began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1948; part-year amounts not included in averages. STA AV values are based on 32 yr record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED SW-17												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.001	0.001	0.0	0.0	0.036	0.0	0.0
5	0.0	0.0	0.0	0.0	0.132	0.001	0.0	0.0	0.0	0.094	0.0	0.001
6	0.0	0.0	0.0	0.0	0.005	0.001	0.001	0.0	0.0	0.0	0.0	0.013
7	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.055
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.097
12	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
13	0.0	0.0	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0 T	0.0	0.0	0.030	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.008	0.0	0.0	0.170	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0 T	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.232	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.095	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.036	0.001	0.0	0.0	0.0	0.0	0.0 T	0.0
26	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.042	0.0	0.0	0.0
29	0.0	0.0	0.0	0.094	0.0	0.0	0.0	0.0	0.0	0.075	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
31	0.0	0.0	0.0	0.0	0.113	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0128	0.0097	0.0004	0.0069	0.0	0.0014	0.0065	0.0	0.0054
INCHES	0.0	0.001	0.007	3.066	2.382	0.096	1.706	0.0	0.338	1.632	0.004	1.326
STA AV	0.441	0.645	0.695	1.024	0.833	0.757	0.234	0.081	0.308	0.407	0.524	0.584

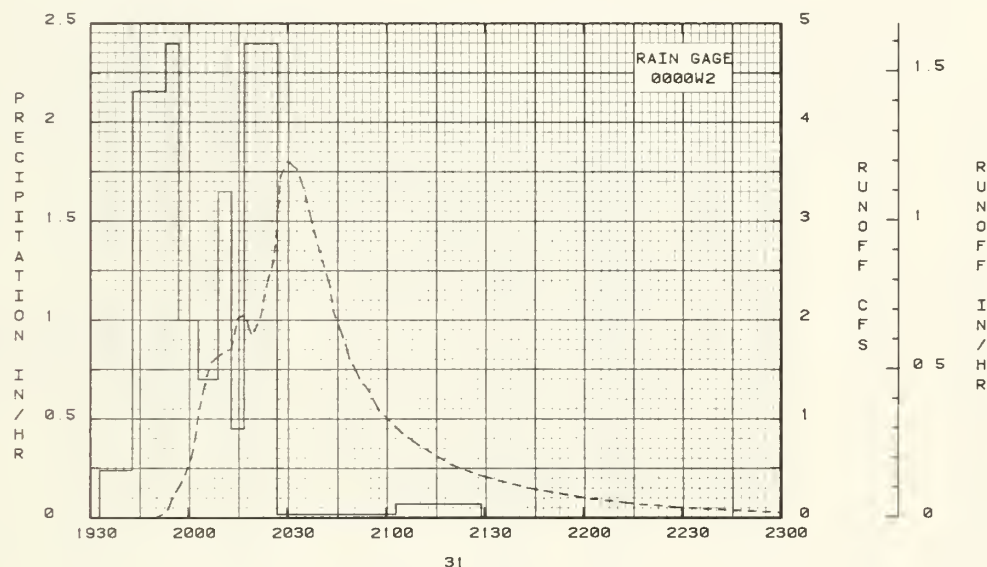
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 7.960419. Records began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV values are based on 32 yr record period.

1976 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED SW-17											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT CP MAY 31, 1976											
RG 0000W2											
5-31	0.50	0.0	5-31	1933	0.0	0.0	5-31	1945	0.0	0.0	
				1943	0.2401	0.04		1950	0.003	0.0000	
				1953	2.1600	0.40		1952	0.026	0.0002	
				1957	2.3998	0.56		1954	0.089	0.0008	
				2003	1.0001	0.66		1955	0.203	0.0016	
WATERSHED CONDITIONS:											
100% Bermudagrass pasture,											
4 to 6 inches high.											
				2009	0.7001	0.73		1957	0.300	0.0044	
				2013	1.6500	0.84		1959	0.435	0.0085	
				2017	0.4500	0.87		2001	0.616	0.0143	
				2023	2.3999	1.11		2002	0.802	0.0182	
				2027	2.4001	1.27		2003	1.032	0.0233	
				2103	0.0167	1.28		2005	1.360	0.0365	
				2129	0.0632	1.31		2007	1.564	0.0528	
								2010	1.657	0.0796	
								2013	1.710	0.1076	
								2014	1.673	0.1175	
								2015	2.015	0.1282	
								2017	2.063	0.1508	
								2018	1.967	0.1619	
								2019	1.864	0.1725	
								2020	1.887	0.1829	
								2022	2.039	0.2046	
								2024	2.393	0.2291	
								2026	2.615	0.2567	
								2027	3.059	0.2724	
								2028	3.457	0.2904	
								2030	3.606	0.3295	
								2033	3.515	0.3885	
								2035	3.330	0.4264	
								2037	3.047	0.4616	
								2040	2.682	0.5091	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.331684.

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-17								
ANTECEDENT CONDITIONS			RAINFALL			Acc. (inches)	RUNOFF				Acc. (inches)
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)		Date Mo-Day	Time of Day	Rate (cfs)		
EVENT OF MAY 31, 1976 (CONTINUED)											
							5-31	2043	2.331	0.5507	
								2044	2.088	0.5629	
								2047	1.818	0.5953	
								2049	1.610	0.6142	
								2052	1.407	0.6393	
								2055	1.275	0.6615	
								2058	1.076	0.6810	
								2105	0.854	0.7183	
								2110	0.728	0.7402	
								2120	0.526	0.7748	
								2130	0.413	0.8008	
								2144	0.290	0.8280	
								2200	0.198	0.8496	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.331684.



EVENT OF MAY 31, 1976
RIESEL (WACO), TEXAS WATERSHED SW-17

RIESEL (WACO), TEXAS WATERSHED SW-19

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 35 sec. N.; Long. 96 deg. 53 min. 49 sec. W.

AREA: 3.25 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								RIESEL (WACO), TEXAS WATERSHED SW-19									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.14	1.00	2.56	8.14	7.10	1.61	5.03	0.11	5.52	5.66	1.68	2.94	41.49			
	Q	0.0	0.0	0.039	4.517	3.234	0.165	0.537	0.0	0.0	1.388	0.086	1.515	11.881			
STA AV	P	1.98	1.59	2.13	4.36	4.17	2.87	3.99	2.49	4.92	5.38	2.40	2.49	38.77			
	Q	0.727	0.596	0.618	1.441	1.166	0.618	0.369	0.308	0.429	1.019	0.646	0.813	6.449			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1976		5-31	1.704	5-31	1.195	5-31	1.546	5-31	1.693	4-13	1.966	4-18	2.759	4-18	2.920	4-16	3.467
MAXIMUMS FOR PERIOD OF RECORD																	
		11-17	2.936	11-17	1.727	11-17	2.269	10-31	2.621	10-31	3.095	10-30	4.148	10-30	4.157	10-30	4.412
		1971		1971		1971		1974		1974		1974		1974		1974	

NOTES: Watershed conditions: 100% rangeland grasses with moderate infestation of honey mesquite, moderately grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1970, USDA Misc. Pub. 1360, p. 42.035-4. Precipitation and runoff records began September 1, 1970, part year records are included in the STA AV. Precipitation data obtained from rain gage 56-B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED SW-19																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 56B. Records began September 1, 1970. STA AV based on 7 yr (1970-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) FIESEL (WACO), TEXAS WATERSHED SW-19												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.002	0.0	0.0	0.003	0.0	0.0	0.024	0.0	0.0
5	0.0	0.0	0.0	0.007	0.085	0.0	0.0	0.0	0.0	0.087	0.0	0.003
6	0.0	0.0	0.0	0.0 T	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.036
7	0.0	0.0	0.0	0.010	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0 T	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.057
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.165
12	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.001
13	0.0	0.0	0.0	0.0	0.037	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.044	0.0	0.0	0.056	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.001	0.0	0.0	0.067	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.366	0.0	0.0	0.031	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.042	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.001	0.0	0.061	0.006	0.0	0.0	0.0	0.0	0.009	0.0
26	0.0	0.0	0.0	0.0	0.001	0.004	0.0	0.0	0.0	0.0	0.003	0.0
27	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.110	0.0	0.0	0.0	0.0	0.0	0.076	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
31	0.0	0.0	0.0	0.0	0.229	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0002	0.0206	0.0142	0.0008	0.0024	0.0	0.0	0.0051	0.0004	0.0084
INCHES	0.0	0.0	0.003	4.517	3.234	0.165	0.537	0.0	0.0	1.388	0.086	1.915
STA AV	0.727	0.596	0.618	1.441	1.166	0.616	0.369	0.008	0.429	1.019	0.646	0.813

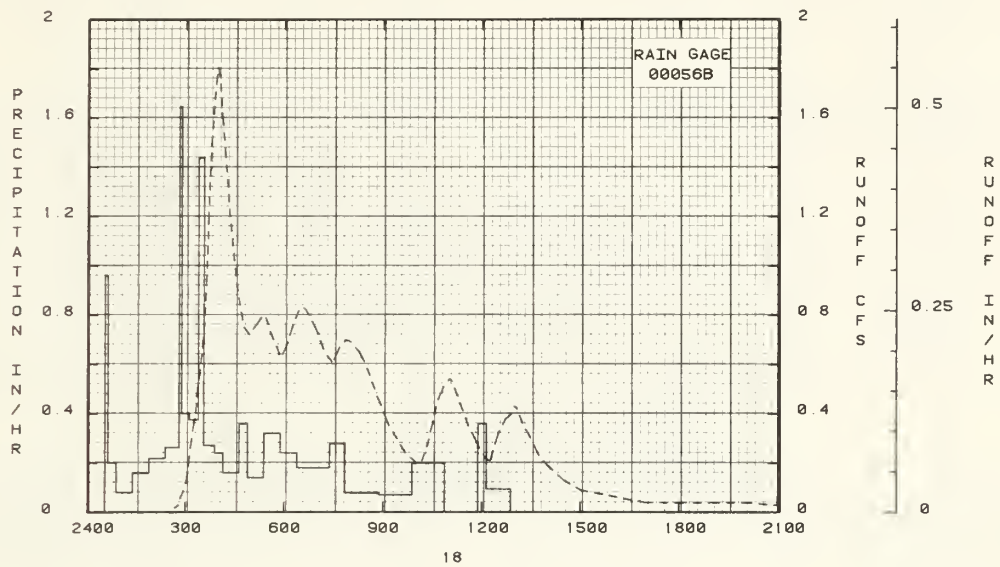
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 7.323585. Records began September 1, 1970.
STA AV based on 7 yr (1970-76) record period.

1976 SELECTED RUNOFF EVENT FIESEL (WACO), TEXAS WATERSHED SW-19											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 18, 1976											
RG 00056B EG 00056B											
4-18	0.0	0.0	4-18	33	0.0	0.0	4-18	231	0.0	0.0	
				36	0.9600	0.06		236	0.003	0.0000	
				53	0.2900	0.13		241	0.016	0.0003	
				123	0.0800	0.17		246	0.031	0.0009	
				153	0.1600	0.25		251	0.056	0.0020	
*WATERSHED CONDITIONS: 100% rangeland grasses, 4 to 6 inches tall, with moderate infestation of honey mesquite.				223	0.2200	0.36		256	0.087	0.0036	
				248	0.2600	0.47		301	0.132	0.0066	
				252	1.6500	0.58		306	0.203	0.0108	
				307	0.4000	0.58		311	0.295	0.0172	
				323	0.3750	0.76		316	0.375	0.0257	
				333	1.4400	1.02		321	0.479	0.0366	
				353	0.2700	1.11		326	0.560	0.0500	
				408	0.2400	1.17		331	0.675	0.0660	
				438	0.1600	1.25		335	0.758	0.0810	
				453	0.3600	1.34		338	0.962	0.0944	
				523	0.1400	1.41		341	1.217	0.1110	
				553	0.3200	1.57		346	1.503	0.1456	
				623	0.2400	1.69		351	1.651	0.1857	
				653	0.1800	1.76		356	1.785	0.2254	
				723	0.1800	1.37		358	1.811	0.2477	
				751	0.2786	2.00		401	1.771	0.2750	
				353	0.0774	2.08		406	1.597	0.3176	
				953	0.0700	2.15		411	1.467	0.3568	
				1053	0.2000	2.35		420	1.203	0.4179	
				1153	0.0	2.35		431	0.962	0.4784	
				1208	0.3600	2.44		441	0.815	0.5236	
				1253	0.0933	2.51		446	0.755	0.5436	
								456	0.724	0.5812	
								517	0.752	0.6622	
								526	0.792	0.6984	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.305149.

1976 SELECTED RUNOFF EVENT			RIESEL (WACC), TRIAS WATERSHED SW-19								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 18, 1976 (CONTINUED)											
							4-18	540	0.702	0.7516	
								551	0.639	0.7891	
								556	0.644	0.8054	
								606	0.651	0.8394	
								616	0.763	0.8763	
								626	0.821	0.9166	
								636	0.830	0.9586	
								645	0.735	0.9958	
								656	0.755	1.0392	
								711	0.662	1.0932	
								726	0.608	1.1416	
								731	0.616	1.1572	
								741	0.665	1.1896	
								752	0.702	1.2280	
								801	0.691	1.2599	
								816	0.654	1.3112	
								826	0.605	1.3432	
								851	0.456	1.4107	
								911	0.352	1.4518	
								941	0.243	1.4971	
								956	0.209	1.5144	
								1001	0.200	1.5196	
								1011	0.214	1.5301	
								1021	0.268	1.5424	
								1031	0.370	1.5586	
								1041	0.456	1.5796	
								1051	0.506	1.6040	
								1101	0.540	1.6306	
								1106	0.527	1.6442	
								1116	0.467	1.6695	
								1126	0.407	1.6917	
								1136	0.345	1.7108	
								1147	0.297	1.7288	
								1156	0.252	1.7416	
								1206	0.219	1.7538	
								1212	0.206	1.7603	
								1216	0.214	1.7646	
								1221	0.250	1.7705	
								1226	0.286	1.7773	
								1232	0.331	1.7867	
								1244	0.375	1.8082	
								1250	0.400	1.8280	
								1259	0.434	1.8386	
								1300	0.417	1.8454	
								1314	0.359	1.8691	
								1329	0.295	1.8941	
								1344	0.232	1.9142	
								1359	0.192	1.9303	
								1429	0.130	1.9549	
								1500	0.092	1.9724	
								1659	0.040	2.0123	
								1800	0.037	2.0243	
								1914	0.039	2.0386	
								1959	0.039	2.0475	
								2058	0.033	2.0583	
								2102	0.083	2.0595	
								2105	0.128	2.0611	
								2107	0.193	2.0627	
								2110	0.293	2.0659	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.305149.



RIESEL (WACO), TEXAS WATERSHED SW-20

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 33 sec. N.; Long. 96 deg. 53 min. 44 sec. W.

AREA: 3.21 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							RIESEL (WACO), TEXAS WATERSHED SW-20													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual						
1976	P	0.14	1.00	2.56	8.14	7.10	1.61	5.03	0.11	5.52	5.66	1.68	2.94	41.49						
	Q	0.0	0.0	0.0	3.566	2.517	0.005	0.303	0.0	0.0	1.181	0.017	1.625	9.213						
STA AV	P	1.98	1.59	2.13	4.36	4.17	2.87	3.99	2.49	4.92	5.38	2.40	2.49	38.77						
	Q	0.798	0.527	0.800	1.456	1.248	0.819	0.454	0.015	0.449	0.607	0.294	0.373	7.841						
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																				
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1976		5-31	1.885	5-31	1.192	5-31	1.425	5-31	1.493	4-18	1.764	4-18	2.421	4-18	2.549	4-12	2.881			
MAXIMUMS FOR PERIOD OF RECORD																				
		11-17	3.121	11-17	1.764	11-17	2.387	10-31	2.915	10-31	3.358	10-30	4.538	10-30	4.546	10-30	4.788			
		1971		1971		1971		1974		1974		1974		1974		1974				

NOTES: Watershed conditions: 100% rangeland grasses with dead honey mesquite, moderately grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1970, USDA Misc. Pub. 1380, p. 42.036-5. Precipitation and runoff records began September 1, 1970, part year records are included in STA AV. Precipitation data obtained from rain gage 56-B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED SW-20													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0		1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	1.01	0.0	0.0	0.0		2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.34	0.0	0.0	0.0		3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.15	0.69	0.0	0.0	1.80	0.0	0.0	2.22	0.0	0.0		4	0.0	0.0	0.15	0.69	0.0	0.0	1.80	0.0	0.0	2.22	0.0	0.0	
5	0.0	0.03	0.0	0.57	1.44	0.0	0.0	0.0	0.0	0.91	0.0	0.67		5	0.0	0.03	0.0	0.57	1.44	0.0	0.0	0.0	0.0	0.91	0.0	0.67	
6	0.0	0.0	0.29	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.17		6	0.0	0.0	0.29	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.17	
7	0.0	0.0	0.57	0.56	0.36	0.0	0.07	0.0	0.0	0.18	0.0	0.0		7	0.0	0.0	0.57	0.56	0.36	0.0	0.07	0.0	0.0	0.18	0.0	0.0	
8	0.0	0.0	0.31	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0		8	0.0	0.0	0.31	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0		9	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	1.39		10	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	1.39	
11	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.64		11	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.64	
12	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.11	0.0		12	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.11	0.0	
13	0.0	0.0	0.15	0.0	0.04	0.0	0.05	0.0	0.0	0.0	0.23	0.0		13	0.0	0.0	0.15	0.0	0.04	0.0	0.05	0.0	0.0	0.0	0.23	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.86	0.0	0.32	0.07		14	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.86	0.0	0.32	0.07	
15	0.0	0.0	0.0	0.86	0.0	0.31	0.97	0.0	0.0	0.07	0.0	0.0		15	0.0	0.0	0.0	0.86	0.0	0.31	0.97	0.0	0.0	0.07	0.0	0.0	
16	0.0	0.0	0.0	0.32	0.0	0.0	1.04	0.09	0.0	0.17	0.0	0.0		16	0.0	0.0	0.0	0.32	0.0	0.0	1.04	0.09	0.0	0.17	0.0	0.0	
17	0.0	0.74	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0		17	0.0	0.74	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	3.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		18	0.0	0.0	0.0	3.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.08	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.39	0.20	0.44	0.0		19	0.08	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.39	0.20	0.44	0.0	
20	0.0	0.23	0.0	0.45	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0		20	0.0	0.23	0.0	0.45	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.46	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0		23	0.0	0.0	0.46	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.54	0.03	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0		24	0.0	0.0	0.54	0.03	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	
25	0.04	0.0	0.0	0.0	1.44	0.97	0.0	0.0	0.0	0.0	0.58	0.0		25	0.04	0.0	0.0	0.0	1.44	0.97	0.0	0.0	0.0	0.0	0.58	0.0	
26	0.0	0.0	0.0	0.0	0.09	0.05	0.0	0.0	0.52	0.0	0.0	0.0		26	0.0	0.0	0.0	0.0	0.09	0.05	0.0	0.0	0.52	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	1.23	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0		28	0.0	0.0	0.0	1.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.02	0.0	1.79	0.0	0.0		29	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.02	0.0	1.79	0.0	0.0	
30	0.0	0.0	0.09	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0		30	0.0	0.0	0.09	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.02		0.0		2.61		0.0	0.0	0.0	0.0	0.0	0.0		31	0.02		0.0		2.61		0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.14	1.00	2.56	8.14	7.10	1.61	5.03	0.11	5.52	5.66	1.68	2.94		TOTAL	0.14	1.00	2.56	8.14	7.10	1.61	5.03	0.11	5.52	5.66	1.68	2.94	
STA AV	1.98	1.59	2.13	4.36	4.17	2.87	3.99	2.49	4.92	5.38	2.40	2.49		STA AV	1.98	1.59	2.13	4.36	4.17	2.87	3.99	2.49	4.92	5.38	2.40	2.49	

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 56B. Records based on 7 yr (1970-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED SW-20												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.0	0.0
5	0.0	0.0	0.0	0.0	0.072	0.0	0.0	0.0	0.0	0.063	0.0	0.005
6	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.014
7	0.0	0.0	0.0	0.004	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.104
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.097
12	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.022	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.031	0.0	0.0	0.037	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.322	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.039	0.0	0.0	0.0	0.0	0.0	0.002	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.088	0.0	0.0	0.0	0.0	0.0	0.076	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.201	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0160	0.0109	0.0	0.0013	0.0	0.0	0.0051	0.0001	0.0071
INCHES	0.0	0.0	0.0	3.566	2.517	0.005	0.303	0.0	0.0	1.181	0.017	1.625
STA AV	0.796	0.527	0.800	1.456	1.248	0.819	0.454	0.015	0.449	0.607	0.294	0.373

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 7.414845. Records began September 1, 1970.
STA AV based on 7 yr (1970-76) record period.

1976 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED SW-20											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 18, 1976											
RG 000568											
4-18	0.0	0.0	4-18	33	0.0	0.0	4-18	240	0.0	0.0	
				38	0.9600	0.08		245	0.003	0.0000	
				53	0.2000	0.13		250	0.010	0.0002	
				123	0.0800	0.17		255	0.026	0.0007	
				153	0.1600	0.25		300	0.046	0.0016	
				223	0.2200	0.36		305	0.076	0.0032	
				248	0.2640	0.47		310	0.109	0.0055	
				252	1.6500	0.58		315	0.155	0.0089	
				307	0.4000	0.68		320	0.209	0.0136	
				323	0.3750	0.78		325	0.273	0.0198	
				333	1.4400	1.02		330	0.381	0.0283	
				353	0.2700	1.11		335	0.506	0.0397	
				408	0.2400	1.17		338	0.675	0.0488	
				438	0.1600	1.25		343	1.034	0.0708	
				453	0.3600	1.34		344	1.181	0.0765	
				523	0.1400	1.41		349	1.543	0.1116	
				553	0.3200	1.57		354	1.914	0.1561	
				623	0.2400	1.69		357	2.077	0.1869	
				653	0.1800	1.78		359	2.164	0.2087	
				723	0.1800	1.87		405	2.227	0.2766	
				751	0.2786	2.00		410	2.212	0.3337	
				853	0.0774	2.08		414	2.168	0.3788	
				953	0.0700	2.15		417	2.025	0.4112	
				1053	0.2000	2.35		420	1.887	0.4414	
				1153	0.0	2.35		425	1.471	0.4847	
				1208	0.3600	2.44		428	1.257	0.5057	
				1253	0.0933	2.51		430	1.081	0.5178	
								435	0.786	0.5418	
								440	0.686	0.5607	
								445	0.605	0.5774	

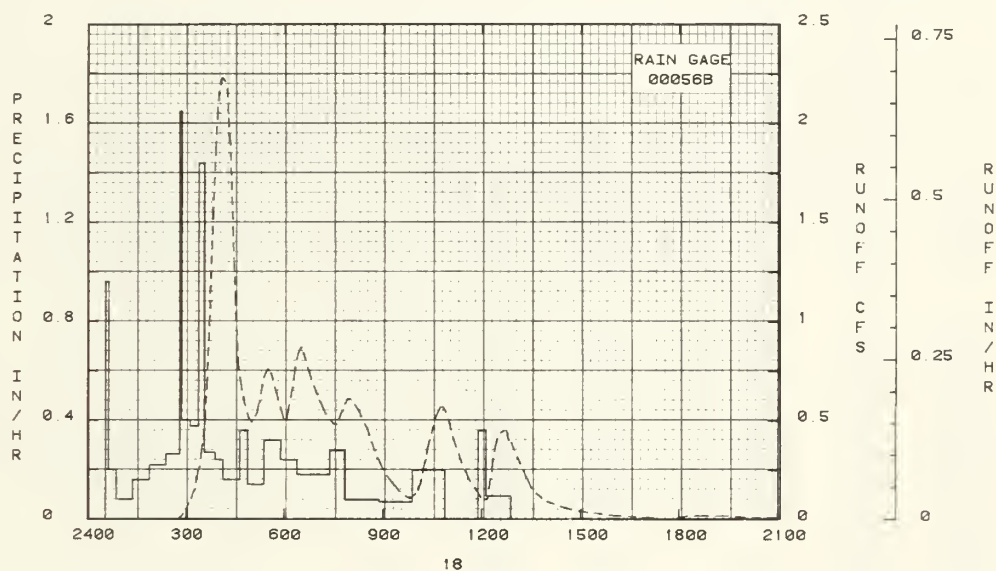
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.308952.

1976 SELECTED RUNOFF EVENT			BIESEL (WACO), TEXAS WATERSHED SW-20							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF APRIL 18, 1976 (CONTINUED)										
							4-18	455	0.514	0.6062
								500	0.487	0.6191
								510	0.536	0.6454
								515	0.598	0.6600
								520	0.683	0.6765
								525	0.744	0.6949
								530	0.763	0.7143
								535	0.738	0.7336
								545	0.644	0.7692
								554	0.547	0.7968
								559	0.504	0.8103
								604	0.512	0.8234
								609	0.583	0.8375
								615	0.670	0.8568
								620	0.769	0.8754
								625	0.836	0.8960
								630	0.866	0.9179
								635	0.839	0.9399
								644	0.749	0.9767
								649	0.708	0.9954
								700	0.626	1.0332
								715	0.527	1.0777
								730	0.475	1.1164
								735	0.475	1.1287
								740	0.506	1.1413
								745	0.547	1.1549
								755	0.605	1.1845
								800	0.608	1.2001
								815	0.545	1.2447
								830	0.458	1.2834
								840	0.383	1.3050
								850	0.312	1.3229
								900	0.254	1.3375
								915	0.187	1.3545
								930	0.140	1.3672
								945	0.114	1.3770
								950	0.113	1.3799
								955	0.119	1.3829
								1000	0.128	1.3861
								1004	0.153	1.3890
								1010	0.202	1.3944
								1014	0.257	1.3992
								1025	0.398	1.4177
								1035	0.510	1.4411
								1045	0.569	1.4689
								1049	0.571	1.4806
								1055	0.540	1.4978
								1100	0.493	1.5111
								1109	0.396	1.5317
								1119	0.317	1.5500
								1129	0.245	1.5645
								1139	0.195	1.5758
								1150	0.149	1.5856
								1159	0.114	1.5917
								1205	0.099	1.5949
								1208	0.097	1.5965
								1209	0.103	1.5970
								1212	0.122	1.5987
								1214	0.165	1.6002
								1220	0.266	1.6068
								1224	0.355	1.6132
								1229	0.413	1.6231
								1235	0.440	1.6363
								1240	0.448	1.6477
								1245	0.448	1.6593
								1249	0.403	1.6680
								1254	0.392	1.6783
								1259	0.348	1.6878
								1310	0.278	1.7055
								1320	0.216	1.7182
								1330	0.163	1.7280
								1339	0.126	1.7347
								1349	0.106	1.7407
								1359	0.088	1.7457
								1430	0.062	1.7576

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.308952.

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-20								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 18, 1976 (CONTINUED)											
							4-18	1459	0.037	1.7650	
								1600	0.016	1.7733	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.308952.



EVENT OF APRIL 18, 1976
RIESEL (WACO), TEXAS WATERSHED SW-20

RIESEL (WACO), TEXAS WATERSHED Y-13

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 36 sec. N.; Long. 96 deg. 52 min. 39 sec. W.

AREA: 11.30 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED Y-13															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1976	P	0.12	0.87	2.50	8.77	7.30	2.11	5.70	0.06	5.31	5.14	1.42	3.05	42.35															
	Q	0.0	0.0	0.0	3.204	1.036	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.240															
STA AV	P	1.62	2.09	2.59	4.12	3.75	2.42	3.14	2.33	4.16	5.23	2.31	2.68	36.41															
	Q	0.107	0.320	0.674	0.815	0.613	0.539	0.071	0.015	0.316	0.486	0.164	0.075	4.195															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days															
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.												
1976		5- 5	1.434	5- 5	0.501	5- 5	0.702	5- 5	0.864	4-18	1.036	4-18	1.716	4-18	1.901	4-12	2.146												
MAXIMUMS FOR PERIOD OF RECORD																													
		6- 3	3.936	6- 3	2.319	6- 3	2.558	6- 3	2.597	6- 3	2.599	6- 3	2.599	6- 1	3.212	5-29	3.974												
		1973		1973		1973		1973		1973		1973		1973		1973													

NOTES: Watershed conditions: 96% sorghum; 4% grassed waterway. Cropland planted on graded furrows. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 42.037-5. Precipitation and runoff records began January 1, 1969. Precipitation data obtained from rain gage 70-A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED Y-13									
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0										
2	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.93	0.0	0.0	0.0	0.0										
3	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.30	0.0	0.0	0.0	0.0										
4	0.0	0.0	0.16	0.66	0.0	0.07	1.55	0.0	0.0	1.87	0.0	0.0	0.0										
5	0.0	0.02	0.0	0.55	1.96	0.0	0.0	0.0	0.0	0.76	0.0	0.60											
6	0.0	0.0	0.24	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.18											
7	0.0	0.0	0.41	0.52	0.40	0.0	0.03	0.0	0.0	0.12	0.0	0.0	0.0										
8	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
9	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
10	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	1.57											
11	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.63											
12	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.15	0.0											
13	0.0	0.0	0.12	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.17	0.0											
14	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.51	0.0	0.16	0.07											
15	0.0	0.0	0.0	0.0	0.77	0.0	0.39	1.22	0.0	0.05	0.0	0.0											
16	0.0	0.0	0.0	0.36	0.0	0.0	1.81	0.04	0.0	0.09	0.0	0.0											
17	0.0	0.52	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0											
18	0.0	0.0	0.0	3.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
19	0.03	0.0	0.0	0.02	0.0	0.06	0.0	0.0	0.28	0.21	0.42	0.0											
20	0.0	0.23	0.0	0.47	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0											
21	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0											
22	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0											
23	0.0	0.0	0.41	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
24	0.07	0.0	0.52	0.06	0.0	0.02	0.0	0.0	0.0	0.08	0.0	0.0											
25	0.0	0.0	0.0	0.0	1.73	1.35	0.0	0.0	0.0	0.0	0.52	0.0											
26	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.39	0.0	0.0	0.0											
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
28	0.0	0.0	0.0	1.56	0.0	0.0	0.0	0.0	2.58	0.09	0.0	0.0											
29	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.02	0.0	1.87	0.0	0.0											
30	0.0		0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
31	0.02				2.30		0.0	0.0				0.0											
TOTAL	0.12	0.87	2.50	8.77	7.30	2.11	5.70	0.06	5.31	5.14	1.42	3.05											
STA AV	1.62	2.09	2.59	4.12	3.75	2.42	3.14	2.33	4.16	5.23	2.31	2.68											

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 70-A. Records began January 1, 1969. STA AV based on 8 yr (1969-76) record period. Estimate codes may indicate that non-significant event totals are included.

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.106341. Records began January 1, 1969.
STA A7 based on 8 yr (1969-76) record period.

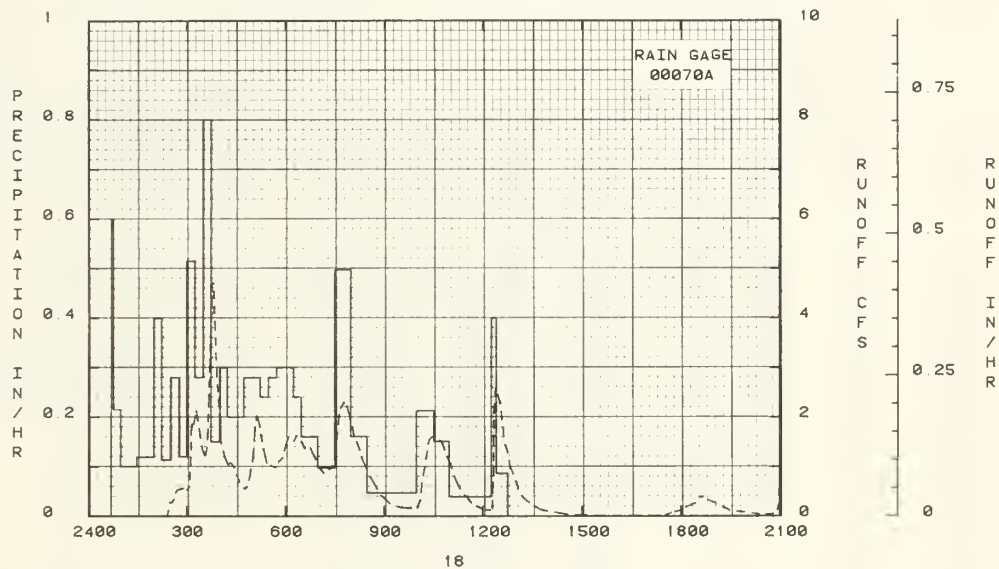
NOTES: To convert runoff in CFS to IN/HR, multiply by .087764.

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-13							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 18, 1976 (CONTINUED)										
4-18			1215		0.0390	2.25	4-18	355	2.807	0.1946
			1224		0.4000	2.31		359	2.029	0.2087
			1245		0.0857	2.34		403	1.458	0.2189
								409	1.194	0.2306
								415	1.038	0.2404
								420	1.081	0.2481
								426	0.982	0.2572
								436	0.695	0.2694
								445	0.549	0.2776
								450	0.589	0.2818
								455	0.813	0.2869
								501	1.218	0.2958
								505	1.793	0.3046
								508	2.040	0.3130
								513	1.803	0.3271
								520	1.347	0.3432
								526	1.074	0.3538
								533	1.024	0.3646
								542	0.982	0.3778
								547	1.096	0.3854
								555	1.179	0.3987
								605	1.602	0.4190
								615	1.520	0.4419
								621	1.629	0.4557
								630	1.475	0.4761
								636	1.364	0.4886
								645	1.380	0.5066
								655	1.141	0.5251
								701	0.982	0.5344
								710	0.857	0.5465
								720	0.955	0.5597
								726	1.017	0.5684
								730	1.187	0.5748
								735	1.696	0.5854
								738	2.061	0.5936
								740	2.182	0.5998
								746	2.295	0.6195
								752	2.215	0.6393
								758	1.945	0.6575
								805	1.639	0.6759
								815	1.330	0.6976
								823	1.060	0.7116
								836	0.765	0.7289
								647	0.554	0.7395
								855	0.407	0.7451
								910	0.254	0.7524
								930	0.166	0.7585
								950	0.159	0.7633
								1000	0.169	0.7657
								1006	0.331	0.7679
								1009	0.679	0.7701
								1014	1.010	0.7763
								1022	1.565	0.7913
								1032	1.639	0.8148
								1045	1.475	0.8444
								1055	1.202	0.8640
								1104	0.948	0.8781
								1109	0.765	0.8844
								1118	0.549	0.8930
								1139	0.257	0.9054
								1149	0.199	0.9087
								1157	0.150	0.9108
								1204	0.130	0.9122
								1214	0.122	0.9140
								1217	0.174	0.9147
								1219	0.679	0.9159
								1220	1.629	0.9176
								1221	2.272	0.9205
								1223	2.568	0.9276
								1227	2.447	0.9422
								1231	2.260	0.9560
								1235	1.935	0.9683
								1238	1.592	0.9760
								1241	1.423	0.9826
								1245	1.265	0.9905

NOTES: To convert runoff in CFS to IN/HR, multiply by .087764.

1976 SELECTED FLOOD EVENT			RIESEL (WACO), TEXAS WATERSHED Y-13							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Fainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 18, 1976 (CONTINUED)										
							4-18	1249	0.989	0.9971
								1255	0.850	1.0052
								1304	0.544	1.0143
								1314	0.364	1.0210
								1324	0.267	1.0256
								1344	0.130	1.0314
								1434	0.031	1.0373
								1509	0.020	1.0386
								1529	0.014	1.0391

NOTES: To convert runoff in CFS to IN/HR, multiply by .087764.



EVENT OF APRIL 18, 1976
RIESEL (WACO), TEXAS WATERSHED Y-13

RIESEL (WACO), TEXAS WATERSHED W-12

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 56 sec. N.; 96 deg. 53 min. 07 sec. W.

AREA: 9.90 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						RIESEL (WACO), TEXAS WATERSHED W-12													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	0.18	0.96	2.48	8.63	7.29	1.80	6.19	0.11	6.52	5.10	1.53	2.73	43.52					
	Q	0.0	0.0	0.001	3.786	1.685	0.005	0.955	0.0	0.603	1.194	0.010	0.651	8.890					
STA AV	P	1.70	1.97	2.39	4.00	4.20	2.80	3.63	2.67	4.73	5.28	2.28	2.57	38.21					
	Q	0.087	0.173	0.349	0.825	0.530	0.533	0.403	0.190	0.690	1.135	0.589	0.537	6.042					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		5- 5	1.646	5- 5	0.682	5- 5	0.791	4-18	1.156	4-18	1.602	4-18	2.383	4-18	2.664	4-12	2.833		
MAXIMUMS FOR PERIOD OF RECORD																			
		6- 3	2.862	6- 3	1.675	11-17	2.018	10-31	2.576	10-31	2.977	10-30	3.226	10-30	3.234	5-28	3.437		
		1973		1973		1971		1974		1974		1974		1974		1973			

NOTES: Watershed conditions: 97% sorghum; 3% grassed waterway. Cropland planted on graded furrows. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 42.039-3. Precipitation and runoff records began October 1, 1969, part year records are included in STA AV. Precipitation data obtained from rain gage W1B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976		DAILY PRECIPITATION (inches)					RIESEL (WACO), TEXAS WATERSHED W-12							
Day		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	1.00	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.32	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.08	0.68	0.0	0.0	1.55	0.0	0.0	1.74	0.0	0.0	
5	0.0	0.02	0.0	0.0	0.44	2.09	0.0	0.0	0.0	0.0	0.90	0.0	0.56	
6	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.20	
7	0.0	0.0	0.38	0.59	0.33	0.0	0.0	0.05	0.0	0.0	0.13	0.0	0.0	
8	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	1.33	
11	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.56	
12	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.12	0.0	
13	0.0	0.0	0.09	0.0	0.10	0.0	0.0	0.03	0.0	0.0	0.0	0.12	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.46	0.0	0.21	0.08	
15	0.0	0.0	0.0	0.0	0.63	0.0	0.44	1.26	0.0	0.0	0.10	0.12	0.0	
16	0.0	0.0	0.0	0.0	0.60	0.0	0.0	1.82	0.09	0.0	0.13	0.0	0.0	
17	0.0	0.70	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	3.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.03	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.30	0.22	0.42	0.0	
20	0.0	0.24	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.50	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.06	0.0	0.63	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	
25	0.07	0.0	0.0	0.0	0.0	1.61	1.14	0.0	0.0	0.0	0.0	0.54	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.46	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	1.47	0.0	0.0	0.0	0.0	3.47	0.05	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.02	0.0	1.73	0.0	0.0	
30	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.02	0.0	0.0	0.0	2.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL		0.18	0.96	2.48	8.63	7.29	1.80	6.19	0.11	6.52	5.10	1.53	2.73	
STA AV		1.70	1.97	2.39	4.00	4.20	2.80	3.63	2.67	4.73	5.28	2.28	2.57	

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W13. Records began October 1, 1969. STA AV based on 8 yr (1969-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-12												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.087	0.0	0.0
5	0.0	0.0	0.0	0.0	0.354	0.0	0.0	0.0	0.0	0.308	0.0	0.0 T
6	0.0	0.0	0.0	0.0	0.002	0.0	0.001	0.0	0.0	0.0	0.0	0.008
7	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.024
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.232
12	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.006
13	0.0	0.0	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.019	0.0	0.0	0.385	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.982	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.036	0.0	0.0	0.0	0.0	0.0	0.003	0.0
26	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.001	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.139	0.0	0.0	0.0	0.0	0.251	0.0	0.0	0.0
29	0.0	0.0	0.0	0.255	0.0	0.0	0.0	0.0	0.0	0.096	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0
31	0.0	0.0	0.0	0.0	0.295	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
MEAN	0.0	0.0	0.0	0.0525	0.0226	0.0001	0.0128	0.0	0.0084	0.0160	0.0001	0.0087
INCHES	0.0	0.0	0.001	3.786	1.685	0.005	0.355	0.0	0.603	1.194	0.010	0.651
STA AV	0.087	0.173	0.349	0.825	0.530	0.533	0.403	0.190	0.690	1.135	0.589	0.537

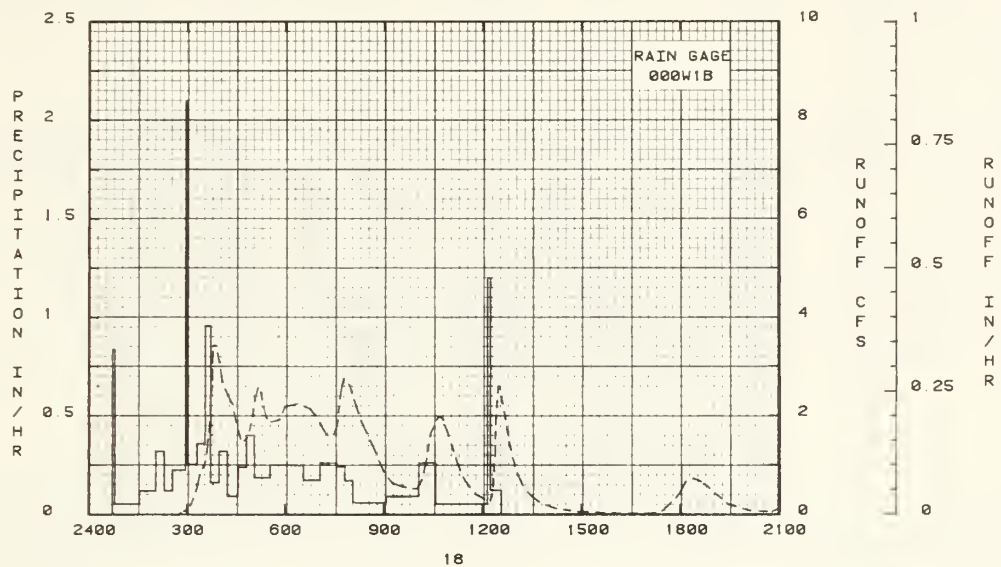
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 2.404207. STA AV based on 8 yr (1969-76) record period.

1976 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED W-12											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 18, 1976											
RG 000418											
4-18 0.0 0.0 4-18 0.0 0.0 4-18 235 0.0 0.0											
44 0.8400 0.07 240 0.002 0.0000											
49 0.0533 0.11 245 0.012 0.0001											
134 0.1200 0.17 250 0.031 0.0002											
204 0.3200 0.25 255 0.071 0.0007											
219 0.1200 0.28 300 0.097 0.0014											
234 0.2250 0.37 307 0.181 0.0030											
258 2.1000 0.44 312 0.326 0.0051											
300 0.2526 0.52 318 0.521 0.0094											
319 0.3600 0.61 324 0.809 0.0160											
334 0.9600 0.77 330 0.963 0.0249											
344 0.1600 0.81 335 1.089 0.0335											
359 0.3200 0.89 338 1.377 0.0396											
414 0.0900 0.92 341 1.727 0.0474											
434 0.2400 0.98 344 2.288 0.0575											
449 0.4000 1.08 346 2.935 0.0662											
504 0.1862 1.17 348 3.313 0.0766											
533 0.2516 1.30 350 3.435 0.0879											
604 0.2483 1.42 354 3.419 0.1108											
633 0.1742 1.51 400 3.077 0.1433											
704 0.2600 1.64 405 2.678 0.1673											
734 0.2400 1.70 415 2.409 0.2098											
749 0.1714 1.74 424 2.229 0.2447											
803 0.0590 1.80 430 1.864 0.2652											
904 0.0900 1.89 439 1.524 0.2906											
1004 0.2600 2.02 445 1.488 0.3057											
1034 0.0505 2.10 450 1.550 0.3184											
1209 1.2000 2.20 455 1.698 0.3319											
1214 0.1200 2.24 500 1.997 0.3474											
1234 0.1200 2.24 505 2.336 0.3654											

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.100175.

1976	SELECTED RUNOFF EVENT					BIESEL (WACO), TEXAS WATERSHED W-12				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 18, 1976 (CONTINUED)										
				4-18				510	2.573	0.3859
								515	2.484	0.4070
								526	1.945	0.4477
								535	1.884	0.4765
								550	1.925	0.5242
								600	2.193	0.5586
								623	2.252	0.6439
								645	2.136	0.7245
								656	1.987	0.7624
								715	1.614	0.8195
								730	1.642	0.8603
								736	1.915	0.8781
								741	2.484	0.8964
								747	2.757	0.9227
								758	2.612	0.9720
								809	2.182	1.0160
								823	1.765	1.0621
								840	1.369	1.1066
								900	0.846	1.1436
								915	0.629	1.1621
								940	0.540	1.1865
								1000	0.512	1.2040
								1010	0.710	1.2142
								1018	1.125	1.2265
								1025	1.642	1.2426
								1040	1.987	1.2881
								1049	1.915	1.3174
								1051	1.814	1.3236
								1059	1.568	1.3462
								1114	1.032	1.3788
								1129	0.656	1.3999
								1149	0.393	1.4174
								1204	0.299	1.4261
								1214	0.273	1.4309
								1220	0.574	1.4351
								1223	1.232	1.4396
								1225	2.018	1.4451
								1229	2.599	1.4605
								1232	2.535	1.4733
								1240	2.061	1.5040
								1249	1.436	1.5303
								1259	0.956	1.5503
								1314	0.569	1.5694
								1329	0.359	1.5810
								1344	0.240	1.5885
								1414	0.113	1.5973
								1459	0.045	1.6033
								1529	0.028	1.6051
								1559	0.018	1.6063
								1629	0.013	1.6070

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.100175.



EVENT OF APRIL 18, 1976
BIESEL (WACO), TEXAS WATERSHED W-12

RIESEL (WACO), TEXAS WATERSHED W-13

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 57 sec. N.; Long. 96 deg. 53 min. 08 sec. W.

AREA: 11.30 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										RIESEL (WACO), TEXAS WATERSHED W-13							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.18	0.96	2.48	8.63	7.29	1.80	6.19	0.11	6.52	5.10	1.53	2.73	43.52			
	Q	0.0	0.3	0.003	5.102	1.619	0.001	0.785	0.0	0.344	1.218	0.032	0.850	9.955			
STA AV	P	1.70	1.97	2.39	4.00	4.20	2.80	3.63	2.67	4.73	5.28	2.28	2.57	38.21			
	Q	0.087	0.208	0.329	1.049	0.680	0.529	0.309	0.058	0.562	0.979	0.454	0.544	5.788			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		5-31	1.515	5-31	0.625	5-5	0.739	4-28	1.380	4-28	2.089	4-18	2.490	4-18	2.729	4-28	3.089
MAXIMUMS FOR PERIOD OF RECORD																	
		7-6	3.317	6-3	1.659	9-17	2.021	10-31	3.004	10-31	3.652	10-30	3.942	10-30	3.951	10-30	3.985
		1973		1973		1974		1974		1974		1974		1974		1974	

NOTES: Watershed conditions: 97% sorghum; 3% grassed waterway. Cropland planted on graded furrows. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, OSDA Misc. Pub. 1370, p. 42.040-3. Precipitation and runoff records began October 1, 1969, part year records are included in STA AV values. Precipitation data obtained from rain gage W1E. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976		DAILY PRECIPITATION (inches)						RIESEL (WACO), TEXAS WATERSHED W-13						
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	
	2	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	1.00	0.0	0.0	0.0	
	3	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.32	0.0	0.0	0.0	
	4	0.0	0.0	0.08	0.68	0.0	0.0	1.55	0.0	0.0	1.74	0.0	0.0	
	5	0.0	0.02	0.0	0.44	2.09	0.0	0.0	0.0	0.0	0.90	0.0	0.56	
	6	0.0	0.0	0.26	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.20	
	7	0.0	0.0	0.38	0.59	0.33	0.0	0.05	0.0	0.0	0.13	0.0	0.0	
	8	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	9	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	1.33	
	11	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.56	
	12	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.12	0.0	
	13	0.0	0.0	0.09	0.0	0.10	0.0	0.03	0.0	0.0	0.0	0.12	0.0	
	14	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.46	0.0	0.21	0.08	
	15	0.0	0.0	0.0	0.63	0.0	0.44	1.26	0.0	0.0	0.10	0.12	0.0	
	16	0.0	0.0	0.0	0.60	0.0	0.0	1.82	0.09	0.0	0.13	0.0	0.0	
	17	0.0	0.70	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	
	18	0.0	0.0	0.0	3.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	19	0.03	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.30	0.22	0.42	0.0	
	20	0.0	0.24	0.0	0.48	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	
	21	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	
	22	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	
	23	0.0	0.0	0.50	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	24	0.06	0.0	0.63	0.04	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	
	25	0.07	0.0	0.0	0.0	1.61	1.14	0.0	0.0	0.0	0.0	0.54	0.0	
	26	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.46	0.0	0.0	0.0	
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	28	0.0	0.0	0.0	1.47	0.0	0.0	0.0	0.0	3.47	0.05	0.0	0.0	
	29	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.02	0.0	1.73	0.0	0.0	
	30	0.0		0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	31	0.02		0.0		2.09		0.0		0.0			0.0	
TOTAL		0.18	0.96	2.48	8.63	7.29	1.80	6.19	0.11	6.52	5.10	1.53	2.73	
STA AV		1.70	1.97	2.39	4.00	4.20	2.80	3.63	2.67	4.73	5.28	2.28	2.57	

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W1E. Records began October 1, 1969. STA AV values are based on 8 yr (1969-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-13													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.098	0.002	0.0	
5	0.0	0.0	0.0	0.0	0.377	0.0	0.0	0.0	0.0	0.378	0.0	0.0 T	
6	0.0	0.0	0.0	0.0	0.002	0.0	0.0 T	0.0	0.0	0.001	0.0	0.010	
7	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
8	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.043	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.351	
12	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.001	0.0	0.0 T	
13	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.028	0.0	0.0	0.001	0.0	0.0	
16	0.0	0.0	0.0	0.009	0.0	0.0	0.343	0.0	0.0	0.001	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.001	0.0	0.0	
18	0.0	0.0	0.0	1.171	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
19	0.0	0.0	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.001	0.001	0.0	
20	0.0	0.0	0.0	0.137	0.0	0.0	0.0	0.0	0.0	0.001	0.004	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.001	0.0 T	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
24	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.030	0.0	0.0	0.0	0.0	0.001	0.005	0.0	
26	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.001	0.002	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
28	0.0	0.0	0.0	0.224	0.0	0.0	0.0	0.0	0.163	0.001	0.0	0.0	
29	0.0	0.0	0.0	0.865	0.0	0.0	0.0	0.0	0.0	0.068	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.338	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0807	0.0248	0.0	0.0120	0.0	0.0054	0.0186	0.0005	0.0130	
INCHPS	0.0	0.0	0.003	5.102	1.619	0.001	0.785	0.0	0.344	1.218	0.032	0.850	
STA AV	0.087	0.208	0.329	1.049	0.680	0.529	0.309	0.058	0.562	0.979	0.454	0.544	

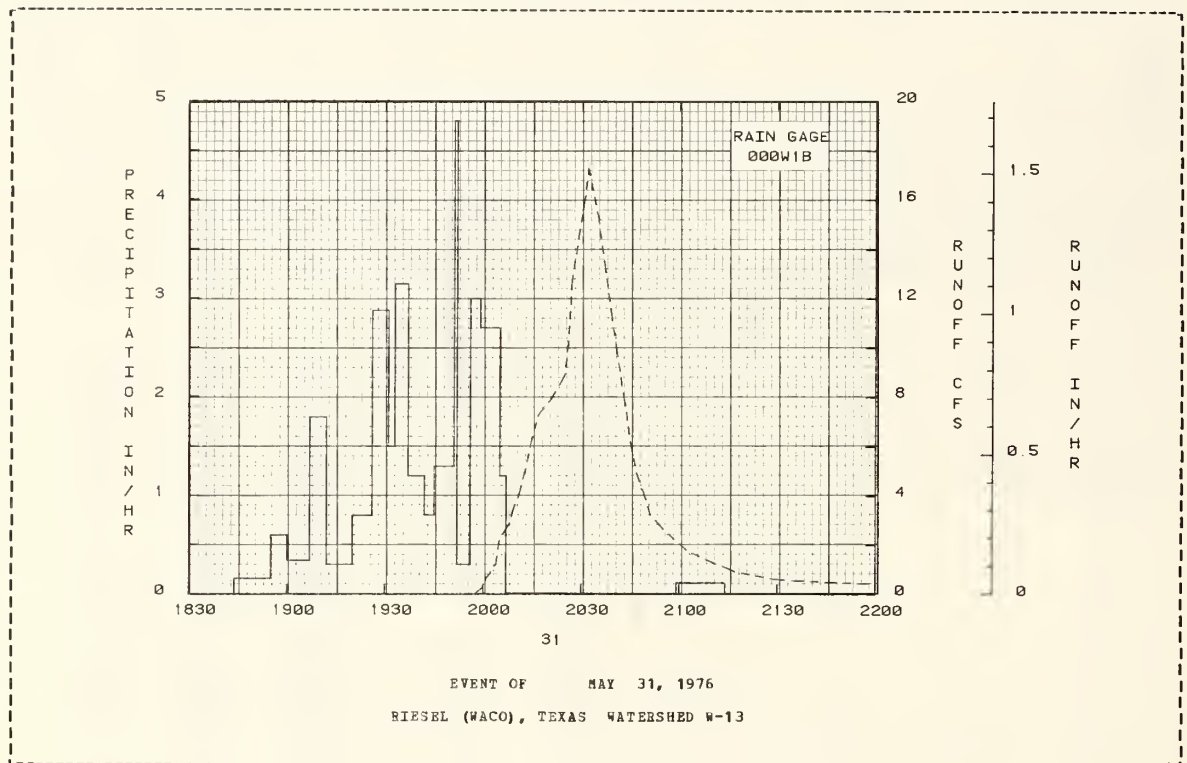
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.106341. Records began October 1, 1969. STA AV values are based on 3 yr (1969-76) record period.

1976 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED W-13													
ANTECEDENT CONDITIONS			RAINFALL								RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	Mo-Day	of Day	(cfs)
EVENT OF MAY 31, 1976													
RG 000418			RG 000418										
5-31	0.33	0.0	5-31	1844	0.0	0.0	5-31	1955	0.0	0.0			
				1855	0.1636	0.03		1956	0.012	0.0000			
				1900	0.6000	0.08		1958	0.091	0.0002			
				1907	0.3426	0.12		2000	0.281	0.0007			
				1912	1.8001	0.27		2001	0.667	0.0014			
WATERSHED CONDITIONS:													
97% sorghum; 3% Bermudagrass													
waterway, good cover.													
				1920	0.2999	0.31		2004	1.250	0.0056			
				1926	0.8000	0.39		2005	2.210	0.0081			
				1931	2.8801	0.63		2008	2.882	0.0193			
				1933	1.5001	0.68		2009	3.364	0.0239			
				1937	3.1499	0.89		2011	4.097	0.0348			
				1942	1.2001	0.99		2013	5.099	0.0482			
				1945	0.7999	1.03		2015	6.377	0.0650			
				1951	1.3000	1.16		2017	7.329	0.0851			
				1952	4.8012	1.24		2021	7.966	0.1298			
				1956	0.2598	1.26		2025	8.943	0.1793			
				1959	3.0002	1.41		2026	10.294	0.1934			
				2005	2.7000	1.68		2027	12.652	0.2101			
				2007	1.1998	1.72		2029	14.509	0.2499			
				2059	0.0115	1.73		2031	16.158	0.2947			
				2114	0.1200	1.76		2032	17.278	0.3192			
								2035	15.320	0.3907			
								2037	13.362	0.4326			
								2039	11.403	0.4689			
								2041	9.663	0.4997			
								2043	7.966	0.5255			
								2045	6.085	0.5460			
								2047	4.846	0.5620			
								2049	4.132	0.5751			
								2051	3.228	0.5859			
								2055	2.638	0.6031			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.087764.

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-13							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 31, 1976 (CONTINUED)										
							5-31	2102	1.757	0.6258
								2109	1.373	0.6420
								2117	0.928	0.6555
								2130	0.603	0.6700
								2138	0.548	0.6768
								2148	0.487	0.6843
								2158	0.439	0.6911

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.087764.



MONTICELLO, ILLINOIS (ALLENTON) WATERSHED IA

LOCATION: Piatt Co., Il; 5 mi. SW of Monticello, Sangamon River, Illinois River, Mississippi River basin. Lat. 39 deg. 59 min. 42 sec. N.; Long. 98 deg. 38 min. 45 sec. W.

AREA: 82.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						MONTICELLO, ILLINOIS (ALLENTON)					WATERSHED IA						
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.85	3.32	5.13	0.94	3.70	2.19	3.91	3.02	4.81	3.29	0.81	0.23	32.20			
	Q	0.0	0.905	0.432	0.0	0.0	0.0	0.017	0.000	0.001	0.0	0.0	0.0	1.255			
STA AV	P	1.76	2.02	2.72	3.62	3.58	4.51	4.05	3.03	3.05	2.89	2.11	2.34	35.70			
	Q	0.178	0.272	0.085	0.164	0.082	0.479	0.177	0.030	0.002	0.093	0.004	0.209	1.775			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		2-16	0.267	2-16	0.222	2-16	0.370	2-16	0.638	2-16	0.798	2-17	0.803	2-17	0.803	2-13	0.805
MAXIMUMS FOR PERIOD OF RECORD																	
		6-6	1.413	6-6	0.568	6-22	0.779	6-22	1.225	6-22	2.298	6-22	2.511	6-21	3.578	6-15	3.593
		1973		1973		1974		1974		1974		1974		1974		1974	

NOTES: Watershed conditions: With the exceptions of a small portion (3.8%) devoted to roads and 14.7% in permanent pasture, the entire area is used in cropping activities. For contour drainage map, see page 61.001-23 in Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1974, DSDA Misc. Pub. 1437. Precipitation values are from R-1 gage, located about 400 ft. east of streamgaging station. Precipitation and runoff records began August 1949. STA AV precipitation and runoff values are for 28 yr (1949-76) period of record. For long-time precipitation records, see National Weather Service records at Decatur, Illinois.

1976	DAILY PRECIPITATION (inches)					MONTICELLO, ILLINOIS (ALLENTON)					WATERSHED IA		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.13	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.89	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.44	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	1.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.79	0.0	1.63	0.0	0.0	0.0
6	0.0	0.07	0.0	0.0	0.77	0.0	0.0	1.81	0.0	0.13	0.0	0.17	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.05	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.65	0.0	0.0	0.0	
10	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.30	0.0	0.0	0.07	0.0	0.21	0.0	0.0	0.0	0.0	
13	0.39	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.04	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.42	0.0	0.20	0.0	0.0	0.0	0.0	0.0	
16	0.0	1.85	0.03	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.63	0.34	0.0	0.0	
20	0.0	0.02	0.15	0.21	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.53	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.33	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.53	0.0	0.03	0.0	0.0	0.0	0.47	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.33	0.07	0.0	0.0	0.0	0.0	0.0	0.07	1.21	0.0	0.12	0.0	
26	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.69	0.0	
27	0.0	0.0	1.65	0.0	0.0	0.0	1.13	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.58	0.96	0.52	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.15	0.0	0.07	0.44	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.10	0.0	0.07	0.0	0.0	0.72	0.0	0.06	
31	0.0	0.0	0.0	0.0	1.20	0.0	0.03	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.85	3.32	5.13	0.94	3.70	2.19	3.91	3.02	4.81	3.29	0.81	0.23	
STA AV	1.76	2.02	2.72	3.62	3.58	4.51	4.05	3.03	3.05	2.89	2.11	2.34	

NOTES: Precipitation data are from the R-1 gage. STA AV values are based on 28 yr period (1949-76), part year records included.

1976 MEAN DAILY DISCHARGE (cfs) MONTICELLO, ILLINOIS (ALLERTON) WATERSHED 1A												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.058	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.219	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.174	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	1.640	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	1.126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	1.096	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0956	0.0480	0.0	0.0	0.0	0.0919	0.0	0.0001	0.0	0.0	0.0
INCHES	0.0	0.805	0.432	0.0	0.0	0.0	0.017	0.000	0.001	0.0	0.0	0.0
STA AV	0.176	0.272	0.085	0.164	0.082	0.479	0.177	0.030	0.002	0.093	0.004	0.209

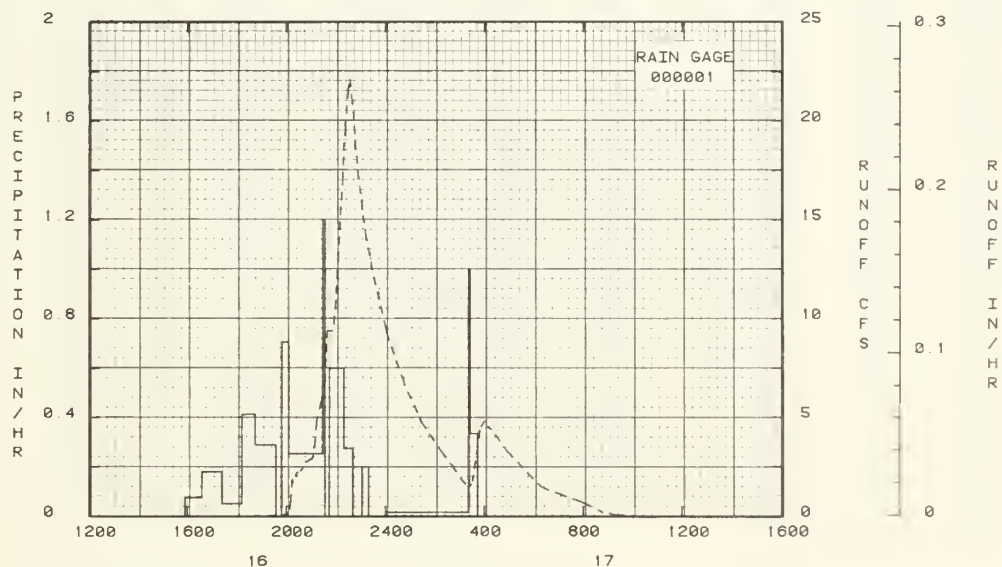
NOTES: To convert CFS to IN/DAY, multiply by 0.290264. STA AV values are based on 28 yr period (1949-76), part year records included.

1976	SELECTED RUNOFF EVENT						MONTICELLO, ILLINOIS (ALLERTON)			WATERSHED 1A	
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF FEBRUARY 16 - 17, 1976											
RG 000001			RG 000001								
2-16	0.0	0.0	2-16	1554	0.0	0.0	2-16	1823	0.005	0.0	
				1634	0.0750	0.05		1834	0.010	0.0000	
				1724	0.1800	0.20		1843	0.014	0.0090	
				1812	0.0500	0.24		1856	0.017	0.0001	
				1844	0.4125	0.46		1917	0.026	0.0002	
WATERSHED CONDITIONS:											
3.8% - roads, 14.7% -											
permanent pasture, remainder											
in cropping activities.											
				1934	0.2680	0.70		1953	0.060	0.0005	
				1949	0.0	0.70		2005	0.187	0.0009	
				2006	0.7059	0.90		2008	0.378	0.0010	
				2129	0.2530	1.25		2012	1.086	0.0016	
				2134	1.2000	1.35		2014	1.875	0.0022	
				2144	0.0	1.35		2015	1.745	0.0026	
				2219	0.6000	1.70		2017	1.658	0.0033	
				2241	0.2727	1.80		2023	2.094	0.0056	
				2304	0.0	1.80		2027	2.223	0.0073	
				2319	0.2000	1.85		2035	2.289	0.0109	
				2353	0.0	1.85		2040	2.420	0.0133	
				2400	0.0	1.85		2050	2.774	0.0185	
			2-17	322	0.0149	1.90		2058	2.867	0.0231	
				325	1.0000	1.95		2101	2.877	0.0248	
				343	0.3333	2.05		2106	3.092	0.0278	
								2110	3.640	0.0306	
								2113	4.702	0.0331	
								2116	5.039	0.0360	
								2123	5.735	0.0436	
								2130	6.176	0.0520	
								2133	6.759	0.0559	
								2134	7.198	0.0573	
								2139	9.400	0.0657	
								2151	5.373	0.0884	
								2155	9.753	0.0961	

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.012054.

1976 SELECTED RUNOFF EVENT			MONTICELLO, ILLINOIS (ALLERTON)				WATERSHED 1A			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF FEBRUARY 16 - 17, 1976 (CONTINUED)										
				2-16			2159		10.559	0.1043
							2206		13.396	0.1212
							2217		17.417	0.1554
							2223		20.033	0.1780
							2231		21.856	0.2118
							2234		22.108	0.2251
							2240		20.851	0.2511
							2253		17.441	0.3012
							2314		13.930	0.3676
							2332		12.074	0.4148
				2-17			2400		9.612	0.4760
							8		8.908	0.4909
							47		6.611	0.5519
							128		4.728	0.5988
							216		3.249	0.6374
							242		2.532	0.6525
							303		1.892	0.6619
							315		1.613	0.6661
							324		1.540	0.6690
							329		1.601	0.6706
							331		1.771	0.6713
							334		2.041	0.6724
							345		3.583	0.6786
							350		4.327	0.6826
							353		4.566	0.6853
							400		4.812	0.6919
							413		4.398	0.7040
							417		4.394	0.7076
							456		3.250	0.7376
							618		1.441	0.7764
							717		0.981	0.7908
							749		0.737	0.7963
							819		0.472	0.8000
							835		0.300	0.8012
							846		0.180	0.8017
							913		0.069	0.8024
							940		0.026	0.8027
							1011		0.002	0.8028
							1053		0.0	0.6028

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.012094.



EVENT OF FEBRUARY 16 - 17, 1976
MONTICELLO, ILLINOIS (ALLERTON) WATERSHED 1A

MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IB

LOCATION: Piatt Co., Il; 5 mi. SW of Monticello, Sangamon River, Illinois River, Mississippi River basin. Lat. 39 deg. 59 min. 42 sec. N.; Long. 88 deg. 38 min. 45 sec. W.

AREA: 45.50 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							MONTICELLO, ILLINOIS (ALLERTON)					WATERSHED IB			
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P	0.85	3.32	5.13	0.94	3.70	2.19	3.91	3.02	4.81	3.29	0.81	0.23	32.20	
	Q	0.001	0.897	0.042	0.0	0.003	0.000	0.080	0.004	0.0	0.0	0.0	0.0	1.027	
STA AV	P	1.24	1.48	1.65	2.30	2.36	2.67	2.45	1.75	1.59	2.23	1.25	1.14	22.10	
	Q	0.139	0.294	0.178	0.324	0.176	0.406	0.165	0.007	0.002	0.143	0.012	0.082	1.928	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		2-16	0.198	2-16	0.176	2-16	0.286	2-16	0.506	2-16	0.716	2-16	0.783	2-15	0.784
														2-10	0.893
MAXIMUMS FOR PERIOD OF RECORD															
		6-6	1.212	6-6	0.673	6-6	1.233	6-6	1.799	6-6	2.029	6-6	2.039	6-5	2.040
		1973		1973		1973		1973		1973		1973		1973	1974

NOTES: Watershed conditions: The entire area is used for cropping activities except for 1% which is in grass. For contour drainage map, see page 61.001-23 in Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1974, USDA Misc. Pub. 1437. Precipitation and runoff records began August 1949. STA AV precipitation and runoff values are for 28 yr (1949-76) record period, part-year records included. Precipitation values are from the R-1 gage, located about 300 ft. west of streamgaging station IB. For long-time precipitation records, see National Weather Service records at Decatur, Illinois.

1976		DAILY PRECIPITATION (inches)					MONTICELLO, ILLINOIS (ALLERTON)					WATERSHED IB	
Day		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.13	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	1.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.79	0.0	1.63	0.0	0.0
6	0.0	0.07	0.0	0.0	0.0	0.77	0.0	0.0	1.81	0.0	0.13	0.0	0.17
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.05	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.65	0.0	0.0	0.0
10	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0
12	0.0	0.0	0.30	0.0	0.0	0.0	0.07	0.0	0.21	0.0	0.0	0.0	0.0
13	0.39	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.04	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.20	0.0	0.0	0.0	0.0	0.0
16	0.0	1.65	0.08	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.63	0.34	0.0	0.0
20	0.0	0.02	0.15	0.21	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0
22	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.53	0.0	0.0	0.03	0.0	0.0	0.0	0.47	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.0
25	0.33	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	1.21	0.0	0.12	0.0
26	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.69	0.0
27	0.0	0.0	1.65	0.0	0.0	0.0	0.0	1.10	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.58	0.96	0.52	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.15	0.0	0.07	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.07	0.0	0.0	0.72	0.0	0.06
31	0.0	0.0	0.0	0.0	1.20	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL		0.85	3.32	5.13	0.94	3.70	2.19	3.91	3.02	4.81	3.29	0.81	0.23
STA AV		1.24	1.48	1.65	2.30	2.36	2.67	2.45	1.75	1.59	2.23	1.25	1.14

NOTES: Precipitation data are from the R-1 gage. STA AV values are based on 28 yr (1949-76) record period, part year records included.

1976 MEAN DAILY DISCHARGE (cfs) MONTICELLO, ILLINOIS (ALLERTON) WATERSHED 1B												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.152	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0 T	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.202	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.567	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.932	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0591	0.0026	0.0	0.0002	0.0	0.0049	0.0002	0.0	0.0	0.0	0.0
INCHES	0.001	0.997	0.042	0.0	0.003	0.000	0.080	0.004	0.0	0.0	0.0	0.0
STA AV	0.136	0.294	0.178	0.324	0.176	0.406	0.165	0.007	0.002	0.143	0.012	0.082

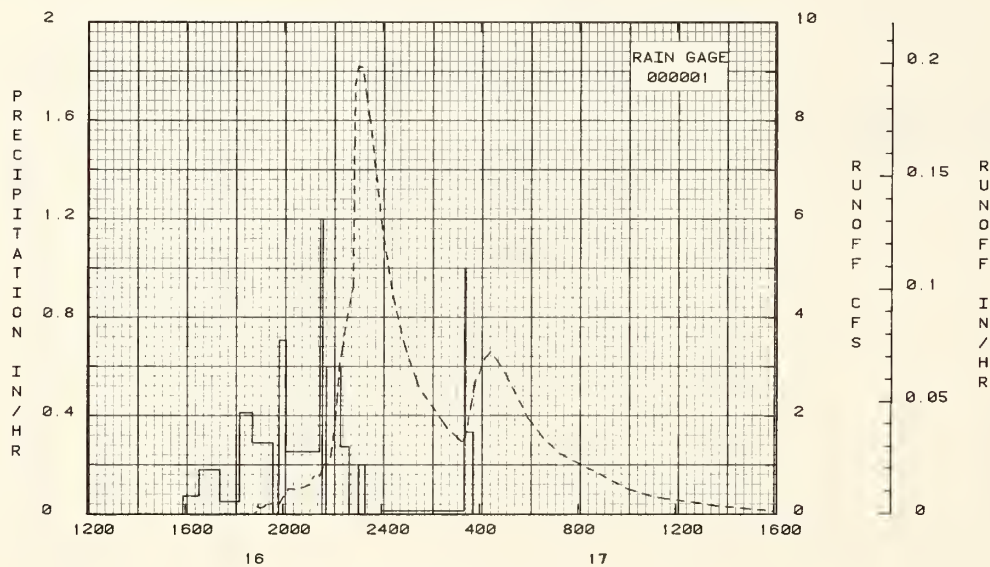
NOTES: To convert CFS to IN/DAY, multiply by 0.523113. STA AV values are based on 28 yr period (1949-76), part year records included.

1976	SELECTED RUNOFF EVENT					MONTICELLO, ILLINOIS (ALLERTON)			WATERSHED 1B		
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF FEBRUARY 16 - 17, 1976											
RG 000001			RG 000001								
2-16	0.0	0.0	2-16	1554	0.0	0.0	2-16	1720	0.0	0.0	
				1634	0.0750	0.05		1750	0.001	0.0000	
				1724	0.1800	0.20		1818	0.004	0.0000	
				1812	0.0500	0.24		1834	0.007	0.0001	
				1844	0.4125	0.46		1851	0.020	0.0001	
WATERSHED CONDITIONS:											
The area is used for cropping					1934	0.2880	0.70	1854	0.050	0.0002	
activities except for 1% in					1949	0.0	0.70	1857	0.147	0.0003	
grass.					2006	0.7059	0.90	1859	0.211	0.0004	
				2129	0.2530	1.25		1901	0.125	0.0005	
				2134	1.2000	1.35		1905	0.117	0.0007	
				2144	0.0	1.35		1910	0.137	0.0010	
				2219	0.6000	1.70		1917	0.179	0.0014	
				2241	0.2727	1.80		1923	0.197	0.0018	
				2304	0.0	1.80		1933	0.218	0.0025	
				2319	0.2000	1.85		1951	0.228	0.0040	
				2353	0.0	1.35		2012	0.514	0.0068	
				2400	0.0	1.85		2027	0.502	0.0096	
			2-17	322	0.0149	1.90		2050	0.550	0.0140	
				325	1.0000	1.95		2103	0.603	0.0167	
				343	0.3333	2.05		2111	0.720	0.0186	
								2115	0.770	0.0197	
								2129	0.775	0.0236	
								2137	0.966	0.0261	
								2141	1.011	0.0276	
								2150	1.014	0.0309	
								2156	1.196	0.0333	
								2207	1.931	0.0396	
								2212	2.459	0.0435	
								2217	3.070	0.0486	
								2223	3.336	0.0555	

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.021796.

1976 SELECTED RUNOFF EVENT			MONTICELLO, ILLINOIS (ALLERTON)				WATERSHED 18			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF FEBRUARY 16 - 17, 1976 (CONTINUED)										
							2-16	2226	3.495	0.0593
								2230	3.787	0.0646
								2249	4.652	0.0937
								2250	6.370	0.0957
								2251	7.520	0.0982
								2253	8.755	0.1041
								2255	8.850	0.1105
								2300	9.107	0.1268
								2310	9.081	0.1599
								2321	8.496	0.1950
								2330	7.938	0.2218
								2400	5.768	0.2965
							2-17	27	4.395	0.3464
								55	3.431	0.3862
								130	2.577	0.4244
								240	1.742	0.4793
								315	1.467	0.4997
								320	1.483	0.5024
								327	1.684	0.5064
								338	2.194	0.5141
								347	2.630	0.5220
								350	2.744	0.5250
								358	2.865	0.5331
								411	3.163	0.5473
								425	3.301	0.5638
								440	3.143	0.5813
								503	2.839	0.6063
								558	1.939	0.6541
								635	1.542	0.6774
								717	1.223	0.6985
								1005	0.495	0.7510
								1059	0.374	0.7595
								1145	0.302	0.7651

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.021796.



EVENT OF FEBRUARY 16 - 17, 1976
MONTICELLO, ILLINOIS (ALLERTON) WATERSHED 18

TOMBSTONE, ARIZONA WATERSHED W-1

LOCATION: Cochise County, Arizona; 5.6 miles W of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 44 min. 45 sec. N.; Long. 110 deg. 09 min. 10 sec. W.

AREA: 36900.00 acres 57.66 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)								TOMBSTONE, ARIZONA WATERSHED W-1											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	0.24	0.92	0.18	0.43	0.83	0.20	3.71	1.45	2.20	1.03	0.40	0.11	11.70					
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.033	0.008	0.066	0.0	0.0	0.0	0.107					
STA AV	P	0.38	0.51	0.69	0.21	0.20	0.35	3.44	2.89	1.44	0.82	0.32	0.40	11.65					
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.034	0.060	0.019	0.0	0.0	0.0	0.113					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		9- 6	0.024	9- 6	0.020	9- 6	0.030	9- 6	0.047	9- 6	0.048	9- 5	0.066	9- 5	0.066	8-30	0.066		
MAXIMUMS FOR PERIOD OF RECORD																			
		8-12	0.163	8-12	0.092	9- 9	0.130	9- 9	0.160	9- 9	0.190	9- 9	0.190	9- 8	0.230	9- 8	0.310		
		1972		1972		1964		1964		1964		1964		1964		1964		1964	

NOTES: Watershed Conditions: 65% of area in desert shrubs (whitethorn, creosotebush and tarbush) with 25% cover and 2% grass cover. 35% is grassland with approximately 20% grass cover (crown spread) and 5% shrub cover. For topography, geological and vegetation maps, see pages 63.1-3, 63.1-4, and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation data: records began January 1964. Monthly totals are Thiessen weighted averages of 90 gages. STA AV values are based on 1968-76 data. Runoff Data: Records began April 1964, STA AV values are based on 1966, 1968-76 data. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1976 DAILY AIR TEMPERATURE (degrees F)													TOMBSTONE, ARIZONA WATERSHED W-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min		
1	39 28	64 36	67 50	79 50	74 52	89 58	93 64	91 61	85 60	69 58	69 42	54 32		
2	42 20	69 37	63 51	76 47	75 53	91 59	94 67	90 62	76 63	76 57	72 45	53 26		
3	47 22	64 41	61 28	76 48	77 57	89 59	96 66	92 65	84 61	75 54	71 46	57 31		
4	50 25	50 43	47 22	78 50	71 51	89 55	98 66	93 64	86 62	75 47	68 44	64 38		
5	60 30	53 42	60 29	68 51	70 43	90 57	95 71	96 62	80 62	78 49	70 44	61 42		
6	58 36	59 44	60 36	71 38	70 50	93 61	95 67	96 65	78 59	82 53	76 48	54 33		
7	50 27	65 43	52 32	74 40	76 46	91 63	93 68	91 69	83 56	73 52	70 49	59 29		
8	57 29	68 48	60 31	79 47	74 46	91 60	95 67	92 64	82 61	69 42	69 42	63 36		
9	56 37	64 52	68 39	80 43	81 45	89 59	98 67	95 62	74 63	76 46	73 42	65 41		
10	52 41	54 45	60 43	78 43	85 54	87 58	93 70	86 66	79 59	80 50	74 47	58 35		
11	64 35	54 40	59 36	80 48	88 52	83 52	90 63	89 61	84 62	83 52	68 44	47 33		
12	66 39	67 47	63 36	75 54	89 55	87 54	88 63	93 66	83 55	75 50	56 47	58 30		
13	68 35	63 46	65 29	56 49	85 55	90 58	81 64	92 62	86 56	64 54	36 32	54 38		
14	65 42	63 34	73 38	58 48	93 55	91 60	91 64	89 63	87 61	64 48	56 33	59 33		
15	70 40	61 39	70 42	50 38	92 58	92 59	94 68	88 66	84 60	74 47	56 41	58 36		
16	68 41	60 36	70 40	41 31	86 58	96 61	87 65	88 61	87 59	76 49	56 37	56 37		
17	67 41	63 32	74 46	54 23	82 56	89 67	82 66	83 60	88 64	76 52	54 36	58 38		
18	72 44	69 36	78 47	68 33	81 55	94 62	85 65	86 62	88 60	76 51	55 37	59 40		
19	62 46	72 42	73 46	69 38	71 55	98 66	85 65	89 64	86 60	71 50	64 42	54 40		
20	50 40	53 38	70 40	78 42	79 56	104 70	91 66	90 64	84 57	72 47	69 41	52 34		
21	55 34	54 26	76 41	60 48	82 54	98 72	83 64	92 65	85 62	71 53	69 44	52 29		
22	61 37	57 31	75 45	77 52	81 52	93 68	81 63	91 69	84 61	69 49	68 46	56 34		
23	60 43	63 30	77 53	76 52	84 51	89 62	84 64	89 64	80 61	66 48	69 44	55 34		
24	54 36	68 50	78 44	82 48	82 54	92 60	83 61	91 64	68 61	62 46	65 44	57 36		
25	57 34	69 37	76 47	82 52	80 50	93 64	86 63	91 63	75 50	71 44	65 46	52 28		
26	52 28	75 42	74 42	78 52	86 52	96 66	88 60	91 67	76 53	68 43	64 41	52 34		
27	54 29	78 49	70 48	76 54	90 56	96 68	86 61	92 62	77 52	53 42	52 48	61 38		
28	63 31	75 47	60 46	78 54	88 57	95 69	83 61	87 63	88 52	50 34	44 23	55 39		
29	65 36	75 43	56 38	80 48	81 58	89 66	78 61	87 65	82 57	60 32	47 22	50 41		
30	69 39		61 30	84 49	82 50	91 63	84 63	86 65	83 62	70 41	54 26	56 42		
31	62 40		74 39		89 50		89 62	93 61		70 42		54 36		
AV.	59 35	64 41	67 40	73 46	81 53	92 62	89 65	90 64	82 59	71 48	63 41	56 35		
MEAN	47.1	52.2	53.4	59.6	67.1	76.9	76.6	76.9	70.6	59.3	51.8	45.8		
STA AV	59 35	61 37	67 41	75 45	84 53	92 62	93 67	89 65	86 60	77 52	67 43	59 37		

NOTES: STA AV values are based on 13 yr (1964-1976) record period.

1976 DAILY PRECIPITATION (inches) TOMBSTONE, ARIZONA WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.05E	0.21E	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.18E	0.0	0.01	0.0	0.05E	0.0	0.0	0.0	0.0	0.0
4	0.0	0.02E	0.0 S	0.0	0.02E	0.0	0.0	0.0	0.34E	0.0	0.0	0.0
5	0.0	0.47E	0.0	0.0	0.0	0.0	0.03E	0.0	0.64E	0.0	0.0	0.0
6	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.59E	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.05E	0.0	0.0	0.0
9	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0 T	0.01	0.0	0.0	0.0
10	0.0	0.20E	0.0	0.0	0.0	0.0	0.08E	0.38E	0.32E	0.0	0.0	0.0
11	0.0	0.13E	0.0	0.0	0.0	0.0	0.40E	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.14E	0.0	0.0	0.17E	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.33E	0.20H	0.0
14	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0
15	0.0	0.0	0.0	0.07E	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.35H	0.0	0.0	0.24E	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.03E	0.0	0.02E	0.29E	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.69E	0.0	0.24E	0.01E	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.07E	0.0	0.19E	0.11E	0.0	0.0	0.01E	0.0
20	0.0	0.0	0.0	0.0	0.01E	0.0	0.22E	0.0 T	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0 T	0.0	0.15E	0.0	0.0
22	0.08E	0.0	0.0	0.0	0.0	0.0	0.0 E	0.23E	0.0	0.03E	0.0	0.0
23	0.13E	0.0	0.0	0.0	0.0	0.0	0.18E	0.04E	0.01E	0.0 E	0.0	0.0
24	0.03E	0.0	0.0	0.0	0.0	0.0	0.05E	0.01E	0.18E	0.07E	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.01	0.01E	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.0 T	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	1.00E	0.08E	0.0	0.18E	0.02E	0.0
28	0.0	0.0	0.0	0.0	0.0	0.07E	0.32E	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.07E	0.32E	0.0	0.0	0.0	0.0	0.11E
30	0.0	0.0	0.0	0.0	0.0	0.06E	0.01	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0
TOTAL	0.24	0.92	0.18	0.43	0.83	0.20	3.71	1.45	2.20	1.03	0.40	0.11
STA AV	0.38	0.51	0.69	0.21	0.20	0.35	3.44	2.89	1.44	0.82	0.32	0.40

NOTES: Data are Thiessen weighted averages of values from 90 gages. STA AV values are based on 9 yr (1968-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.645	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.873	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.061	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.739	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.599	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.572	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	35.684	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	9.469	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	6.158	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	1.6562	0.3843	3.4193	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.033	0.008	0.066	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.034	0.060	0.019	0.0	0.0	0.0

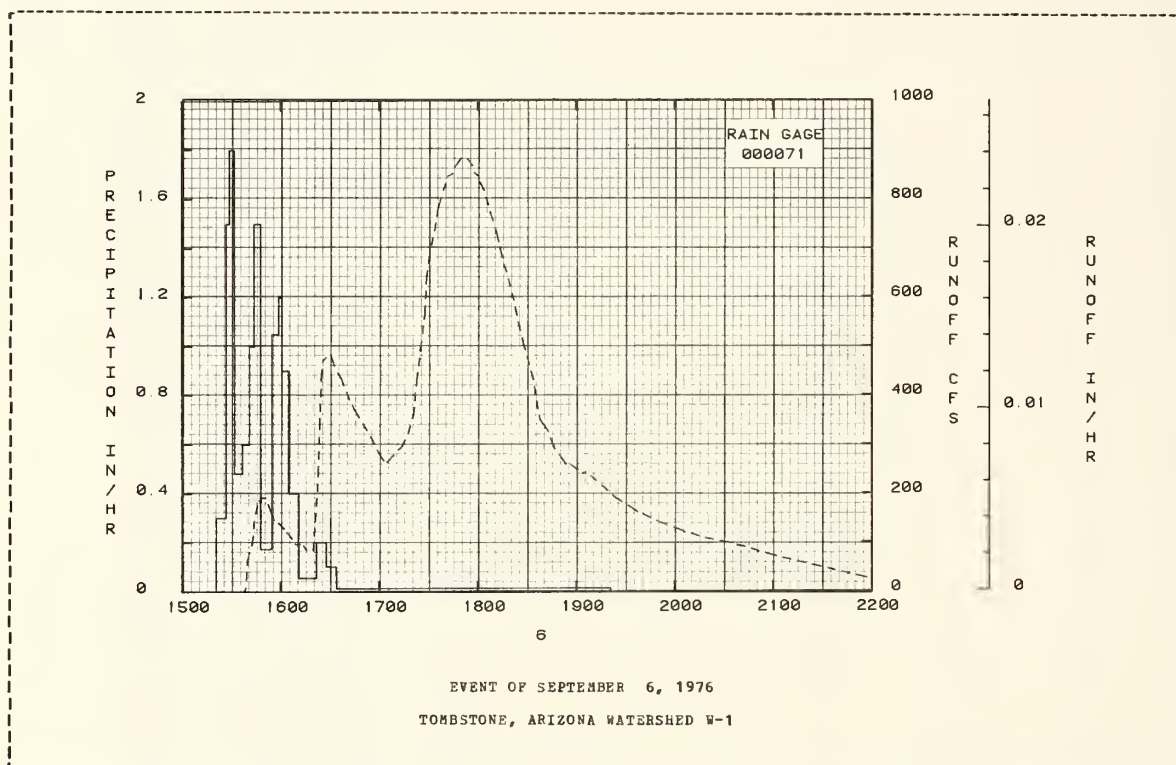
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000645. STA AV values are based on 10 yr (1966, 1968-76) record period. Previously published data are being reevaluated.

1976 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-1							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 6, 1976										
RG 000071			RG 000071							
9- 6	0.0	0.016	9- 6	1521	0.0	0.0	9- 6	1538	0.0	0.0
				1527	0.3000	0.03		1539	8.704	0.0
				1529	1.5000	0.08		1540	64.363	0.0000
				1532	1.8000	0.17		1541	80.109	0.0004
				1537	0.4800	0.21		1543	99.363	0.0001
WATERSHED CONDITIONS:				1541	0.6000	0.25		1544	144.417	0.0002
65% of area in desert shrubs				1544	1.0000	0.30		1545	160.015	0.0002
(whitethorn, creosotebush and				1548	1.5000	0.40		1546	176.840	0.0003
tarbush) with 23% cover and				1555	0.1714	0.42		1547	185.428	0.0004
2% grass cover. 35% is in				1559	1.0500	0.49		1548	186.474	0.0005
grassland with approximately										
20% grass cover (crown				1601	1.2000	0.53		1549	191.751	0.0006
spread) and 5% shrub cover.				1605	0.9000	0.59		1551	191.751	0.0007
				1611	0.4000	0.63		1553	172.463	0.0009
				1622	0.0545	0.64		1556	146.853	0.0011
				1628	0.2000	0.65		1559	138.127	0.0013
				1634	0.1000	0.67		1602	127.988	0.0015
				1921	0.0108	0.70		1604	120.731	0.0016
								1607	107.686	0.0017
								1609	96.427	0.0018
								1612	96.427	0.0020
								1614	92.826	0.0020
								1616	84.400	0.0021
								1620	84.400	0.0023
								1622	175.150	0.0024
								1623	241.215	0.0025
								1624	353.303	0.0026
								1625	438.123	0.0028
								1626	472.257	0.0030
								1628	478.183	0.0034
								1631	476.992	0.0041
								1633	459.363	0.0045
								1637	433.604	0.0053
								1642	391.365	0.0062
								1645	371.281	0.0067
								1648	353.811	0.0072
								1655	315.024	0.0082
								1700	281.406	0.0089
								1703	266.038	0.0093
								1705	263.881	0.0095
								1709	277.407	0.0100
								1714	295.883	0.0106
								1718	324.125	0.0112
								1721	359.924	0.0117
								1723	431.354	0.0120
								1726	510.896	0.0126
								1728	567.449	0.0131
								1729	639.552	0.0134
								1731	692.281	0.0140
								1734	736.615	0.0150
								1736	779.333	0.0156
								1738	803.261	0.0163
								1742	846.371	0.0178
								1745	852.271	0.0190
								1746	864.995	0.0193
								1750	882.968	0.0209
								1754	881.263	0.0225
								1757	867.552	0.0237
								1758	853.115	0.0241
								1800	847.211	0.0246
								1804	817.216	0.0263
								1808	769.115	0.0277
								1812	727.474	0.0291
								1815	679.792	0.0300
								1820	622.031	0.0315
								1823	577.308	0.0323
								1825	545.457	0.0328
								1829	491.365	0.0337
								1834	430.792	0.0348
								1838	349.266	0.0355
								1843	325.573	0.0362

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000269.

1976	SELECTED RUNOFF EVENT					TOMBSTONE, ARIZONA WATERSHED W-1				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 6, 1976 (CONTINUED)										
							9- 6	1847	289.047	0.0368
								1854	257.896	0.0376
								1857	257.046	0.0380
								1901	247.397	0.0384
								1904	239.581	0.0388
								1906	242.855	0.0390
								1909	235.120	0.0393
								1924	189.630	0.0407
								1937	161.624	0.0417
								1951	139.016	0.0427
								2006	120.731	0.0436
								2019	106.914	0.0442
								2034	97.400	0.0449
								2102	69.824	0.0460
								2129	48.344	0.0467

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000269.



TOMBSTONE, ARIZONA WATERSHED W-2

LOCATION: Cochise County, Arizona; 2-3/4 miles NW of Tombstone, Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 44 min. 05 sec. N.; Long. 110 deg. 05 min. 55 sec. W.

AREA: 28100.00 acres 43.90 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							TOMBSTONE, ARIZONA WATERSHED W-2											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual				
1976	P	0.24	0.95	0.16	0.41	0.83	0.20	3.76	1.57	2.38	1.06	0.41	0.10	12.07				
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.052	0.017	0.095	0.000	0.0	0.0	0.164				
STA AV	P	0.39	0.53	0.67	0.21	0.20	0.35	3.46	2.86	1.51	0.84	0.34	0.40	11.75				
	Q	0.0	0.0	0.0	0.0	0.0	0.001	0.059	0.070	0.034	0.001	0.0	0.0	0.165				
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																		
	Maximum Discharge Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	Maximum Volume for Selected Time Interval		6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.
1976	7-27	0.04	9-6	0.034	9-6	0.047	9-6	0.058	9-6	0.058	9-5	0.093	9-5	0.093	9-4	0.095		
MAXIMUMS FOR PERIOD OF RECORD																		
	7-26 1955	0.160	7-26 1959	0.130	7-26 1969	0.170	7-26 1959	0.210	9-9 1964	0.240	9-9 1964	0.240	9-9 1964	0.240	9-9 1964	0.430		

NOTES: Watershed Conditions: 55% of area in oak woodland and desert shrubs (whitethorn, creosotebush, tarbush and Mortonia), with a 25% crown spread cover. 45% of area supports grass (black grama, curly mesquite, tobosa, blue grama and sideoats grama), with a basal area of 2.5%, and a shrub cover of approximately 6% crown spread. For topographic, geological and vegetation maps, see pages 63.1-3, 63.1-4, and 63.1-5, respectively of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began January 1954. Monthly totals are Thiessen weighted averages from 69 gages, STA AV values are based on 9 yr (1968-76) record period. Ennoff Data: Records began July 1959, STA AV values are based on 1966, 1968-76 data. Temperature Data: See table of daily maximum and minimum value included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1976 DAILY PRECIPITATION (inches)														TOMBSTONE, ARIZONA WATERSHED W-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.05E	0.21E	0.0	0.0			
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.0	0.0	0.15S	0.0	0.01	0.0	0.05E	0.0	0.0	0.0	0.0	0.0			
4	0.0	0.03E	0.0 E	0.0	0.02E	0.0	0.0	0.0	0.38E	0.0	0.0	0.0			
5	0.0	0.48E	0.0	0.0	0.0	0.0	0.03E	0.0	0.79E	0.0	0.0	0.0			
6	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.57E	0.0	0.0	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.0	0.0	0.0	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.07E	0.0	0.0	0.0			
9	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0			
10	0.0	0.21E	0.0	0.0	0.0	0.0	0.10E	0.44E	0.32E	0.0	0.0	0.0			
11	0.0	0.13E	0.0	0.0	0.0	0.0	0.38E	0.0	0.0	0.0	0.0	0.0			
12	0.0	0.0	0.0	0.0	0.0	0.0	0.27E	0.16E	0.0	0.0	0.18E	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.37E	0.19E	0.0			
14	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0			
15	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.33E	0.0	0.0	0.21E	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.01	0.0	0.02E	0.35E	0.0	0.0	0.0	0.0			
18	0.0	0.0	0.0	0.0	0.70E	0.0	0.13E	0.01E	0.0	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.0	0.08E	0.0	0.22E	0.11E	0.0	0.0	0.01E	0.0			
20	0.0	0.0	0.0	0.0	0.01E	0.0	0.28E	0.0 T	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0 T	0.0	0.15E	0.0	0.0			
22	0.08E	0.0	0.0	0.0	0.0	0.0	0.0 T	0.24E	0.0	0.03E	0.0	0.0			
23	0.13E	0.0	0.0	0.0	0.0	0.0	0.18E	0.04E	0.0 T	0.0 T	0.0	0.0			
24	0.03E	0.0	0.0	0.0	0.0	0.0	0.05E	0.01E	0.18E	0.05E	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.01	0.01	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0 T	0.0	0.0	0.0			
27	0.0	0.0	0.0	0.0	0.0	0.0	0.93E	0.10E	0.0	0.20E	0.03E	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.07E	0.39E	0.0	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.0	0.0	0.0	0.08E	0.37E	0.0	0.0	0.0	0.0	0.10E			
30	0.0	0.0	0.0	0.0	0.0	0.05E	0.01	0.0	0.0	0.0	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0			
TOTAL	0.24	0.95	0.16	0.41	0.83	0.20	3.76	1.57	2.38	1.06	0.41	0.10			
STA AV	0.39	0.53	0.67	0.21	0.20	0.35	3.46	2.86	1.51	0.84	0.34	0.40			

NOTES: Data are Thiessen weighted averages of values from 69 gages. STA AV values are based on 9 yr (1968-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA WATERSHED W-2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.029	0.0	0.002	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.029	0.0	0.0 T	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.0	0.0 T	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.0	0.002	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.016	21.029	0.006	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	89.139E	0.010	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.197	0.005	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.005	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.034	0.003E	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.920	1.801	0.0 T	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.024	0.032	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.025	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004E	0.025	0.001	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.006	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.269	0.005	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.069	0.183	0.003	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.002	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.002	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.064	0.001	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.007	0.001	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.003	0.006E	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.002	0.0 T	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002E	0.0 T	0.003	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	37.700	0.0	0.0	0.002	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	14.296	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	8.940E	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.037	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.029	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	1.9702	0.6649	3.7463	0.0015	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.052	0.017	0.095	0.000	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.001	0.059	0.070	0.034	0.001	0.0	0.0

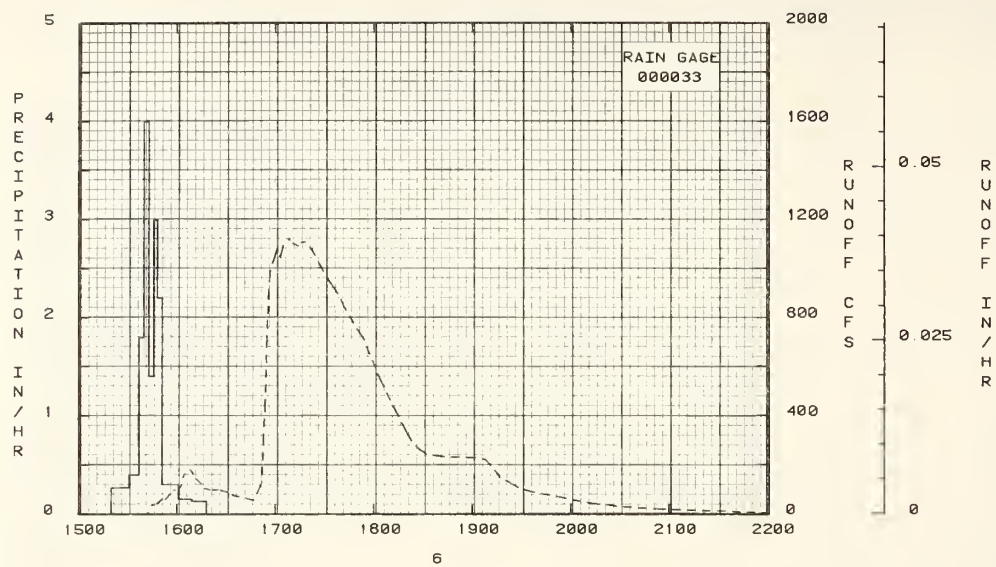
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000847. STA AV values are based on 1966 and 1968-75 record period.

1976			SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-2					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 6, 1976											
RG 000033			RG 000033								
9- 6	0.0	0.017	9- 6	1520	0.0	0.0	9- 6	1531	0.039	0.0	
				1531	0.2727	0.05		1532	0.039	0.0	
				1537	0.4000	0.09		1535	0.391	0.0	
				1540	1.8000	0.18		1538	0.488	0.0	
				1543	4.0000	0.38		1542	1.507	0.0	
WATERSHED CONDITIONS:											
Oak woodland and desert shrubs											
(Whitethorn, creosotebush,											
tarbush, and morotonia) with											
a crown spread of 25% cover,											
occupy 55% of the area. The											
remaining 45% supports grass											
(black grama, curly mesquite,											
tobosa, blue grama, and											
sideoats grama) with a											
basal area of 2.5% cover,											
and a shrub cover of											
approximately 6% crown spread.											
				1546	1.4000	0.45		1543	9.027	0.0	
				1548	3.0000	0.55		1545	40.855	0.0000	
				1551	2.2000	0.66		1546	38.692	0.0001	
				1601	0.3000	0.71		1548	43.490	0.0001	
				1609	0.1500	0.73		1551	62.935	0.0002	
				1618	0.1333	0.75		1553	63.315	0.0003	
								1556	84.274	0.0004	
								1558	99.281	0.0005	
								1559	101.217	0.0006	
								1601	101.217	0.0007	
								1603	121.149	0.0008	
								1604	153.642	0.0009	
								1605	165.680	0.0010	
								1608	180.393	0.0013	
								1610	164.351	0.0015	
								1612	143.383	0.0017	
								1615	121.697	0.0019	
								1617	105.425	0.0020	
								1620	98.090	0.0022	
								1622	97.616	0.0023	
								1625	100.486	0.0025	
								1627	96.908	0.0026	
								1631	88.215	0.0028	
								1634	77.339	0.0030	
								1638	71.353	0.0032	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000353.

1976	SELECTED RUNOFF EVENT					TOMBSTONE, ARIZONA WATERSHED #2				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 6, 1976 (CONTINUED)										
				9- 6			1642		63.506	0.0033
							1647		56.348	0.0035
							1652		131.540	0.0038
							1653		327.302	0.0039
							1654		466.423	0.0041
							1655		726.304	0.0045
							1656		886.237	0.0050
							1657		991.948	0.0055
							1701		1076.604	0.0079
							1703		1045.601	0.0092
							1705		1093.117	0.0104
							1708		1118.979	0.0124
							1709		1115.624	0.0131
							1711		1100.593	0.0144
							1714		1088.978	0.0163
							1716		1106.426	0.0176
							1718		1108.094	0.0189
							1722		1078.250	0.0214
							1727		1012.689	0.0245
							1733		942.716	0.0280
							1738		898.271	0.0307
							1743		829.156	0.0332
							1754		706.708	0.0382
							1804		544.176	0.0419
							1813		422.745	0.0444
							1819		345.019	0.0458
							1823		296.745	0.0465
							1828		259.929	0.0473
							1832		244.248	0.0479
							1837		235.835	0.0486
							1843		232.677	0.0495
							1902		227.990	0.0520
							1908		220.687	0.0528
							1917		149.236	0.0538
							1928		106.179	0.0546
							1938		85.575	0.0552
							1947		75.713	0.0556
							1957		61.992	0.0560
							2013		42.452	0.0565
							2028		30.808	0.0569
							2058		17.767	0.0573
							2130		11.410	0.0576

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000353.



EVENT OF SEPTEMBER 6, 1976
TOMBSTONE, ARIZONA WATERSHED W-2

TOMBSTONE, ARIZONA WATERSHED W-3

LOCATION: Cochise County; 1.3 miles north of Tombstone; tributary of Walnut Gulch; San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 43 min. 57 sec. N.; Long. 110 deg. 03 min. 25 sec. W.

AREA: 2220.00 acres 3.47 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)								TOMBSTONE, ARIZONA WATERSHED W-3											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	0.21	0.86	0.13	0.44	1.00	0.19	2.51	0.71	2.15	0.92	0.32	0.09	9.53					
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0	0.021					
STA AV	P	0.50	0.39	0.46	0.15	0.12	0.30	3.37	2.80	1.42	0.64	0.40	0.64	11.22					
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.038	0.094	0.032	0.001	0.0	0.0	0.165					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		9- 8	0.020	9- 8	0.011	9- 6	0.014	9- 6	0.015	9- 6	0.015	9- 5	0.015	9- 4	0.015	9- 2	0.021		
MAXIMUMS FOR PERIOD OF RECORD																			
		8-16	0.560	8-10	0.275	8-10	0.312	9-11	0.320	8-11	0.320	8-11	0.320	8-10	0.320	8-10	0.426		
		1956		1971		1971		1971		1971		1971		1971		1971			

NOTES: Watershed conditions: Vegetative cover; Desert shrubs (whitethorn, creosotebush, and tarbush) with a crown spread approximately 30% and grasses with basal area of approximately 0.8% cover occupy 55% of the area. Grasses (black grama, curly mesquite, tobosa) with basal area of 2.6% cover and shrub cover of 2% occupy the remaining 45% of the area. For topography, geologic and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5 of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. No. 1226. Precipitation Data: Records began 1955. Monthly totals are Thiessen weighted averages of 13 gages, STA AV values are based on record period (1955-76). Runoff Data: Records began 1958, STA AV values are based on record period (1958-76). Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1976 DAILY PRECIPITATION (inches) TOMBSTONE, ARIZONA WATERSHED W-3													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.20E	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.13E	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.32E	0.0	0.0	0.01E	0.0	0.0	0.0	0.39E	0.0	0.0	0.0	
5	0.0	0.43E	0.0	0.0	0.0	0.0	0.0	0.0	0.34E	0.0	0.0	0.0	
6	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.71E	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.04E	0.0	0.0	0.0	
9	0.0	0.39E	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	
10	0.0	0.19E	0.0	0.0	0.0	0.0	0.06	0.08	0.47E	0.0	0.0	0.0	
11	0.0	0.11	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.16	0.0	0.0	0.13	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.38	0.17E	0.0	
14	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	
15	0.0	0.0	0.0	0.06	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.37E	0.0	0.0	0.22E	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.01	0.0	0.01	0.15	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.84E	0.0	0.07	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.13E	0.0	0.14	0.09	0.0	0.0	0.02	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.06	0.0	0.0	
22	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.02	0.0	0.0	
23	0.12	0.0	0.0	0.0	0.0	0.0	0.22	0.08E	0.0	0.0	0.0	0.0	
24	0.05	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.16E	0.07E	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.01	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.08E	0.0	0.13	0.0 T	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.12	0.14	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.07	0.37	0.0	0.0	0.0	0.0	0.09E	
30	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	
TOTAL	0.21	0.86	0.13	0.44	1.00	0.19	2.51	0.71	2.15	0.92	0.32	0.09	
STA AV	0.50	0.39	0.48	0.15	0.12	0.30	3.37	2.80	1.42	0.64	0.40	0.64	

NOTES: Data are Thiessen weighted averages from 13 rain gages. STA AV values are based on record period (1955-76).

1976 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA WATERSHED W-3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.398	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.559	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0652	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.038	0.094	0.032	0.001	0.0	0.0

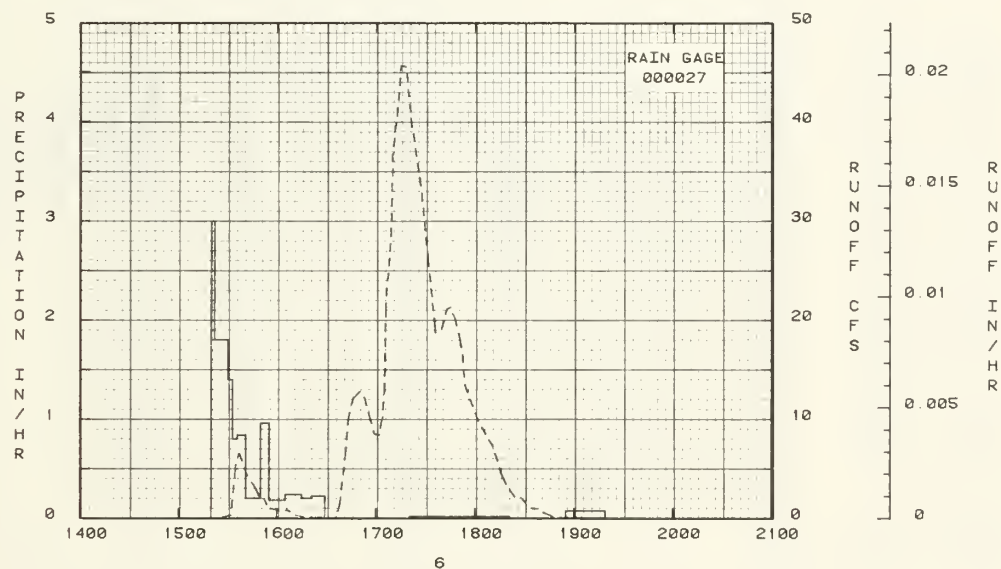
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.010722. STA AV values are based on record period (1958-76).

1976 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA WATERSHED W-3											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 6, 1976											
RG 000027			RG 000027								
9- 6	9.0	0.0	9- 6	1520	0.0	0.0	9- 6	1524	0.0	0.0	
				1522	3.0000	0.10		1525	0.040	0.0	
				1526	1.8000	0.22		1527	0.123	0.0	
				1530	1.8000	0.34		1532	0.302	0.0000	
				1533	1.4000	0.41		1533	1.852	0.0000	
WATERSHED CONDITIONS: Vegetative Cover: Desert shrubs (whitethorn, creosote-bush, and tarbush) with a crown spread approximately 30% and grasses with basal area of approximately 0.9% cover, occupy 55% of the area. Grasses (black grama, curly mesquite, tobosa) with a basal area of 2.6% cover and shrub cover of 2% occupy the remaining 45% of the area.				1536	0.8000	0.45		1535	5.447	0.0001	
				1541	0.8400	0.52		1537	6.564	0.0002	
				1550	0.2000	0.55		1539	5.743	0.0002	
				1555	0.9600	0.63		1542	4.220	0.0004	
				1605	0.1800	0.66		1547	2.979	0.0005	
				1615	0.2400	0.70		1549	2.254	0.0005	
				1621	0.2000	0.72		1552	1.933	0.0006	
				1629	0.2250	0.75		1554	1.356	0.0006	
				1720	0.0	0.75		1556	0.946	0.0006	
				1749	0.0207	0.76		1601	0.805	0.0006	
				1821	0.0187	0.77		1606	0.817	0.0007	
				1855	0.0	0.77		1608	0.643	0.0007	
				1919	0.0750	0.80		1612	0.267	0.0007	
								1616	0.095	0.0007	
								1627	0.052	0.0007	
								1636	0.040	0.0007	
								1638	1.407	0.0007	
								1640	4.412	0.0008	
								1642	7.188	0.0009	
								1643	9.953	0.0009	
								1646	12.118	0.0012	
								1650	12.814	0.0015	
								1653	12.118	0.0018	
								1656	10.263	0.0021	
								1659	8.438	0.0023	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000447.

1976			SELECTED RUNOFF EVENT				TOMBSTONE, ARIZONA WATERSHED W-3					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF SEPTEMBER 6, 1976 (CONTINUED)												
							9- 6	1702	8.391	0.0025		
								1704	10.263	0.0026		
								1705	12.873	0.0027		
								1706	21.743	0.0028		
								1709	28.525	0.0034		
								1710	36.846	0.0036		
								1713	41.449	0.0045		
								1715	45.650	0.0051		
								1718	45.533	0.0062		
								1721	40.244	0.0071		
								1727	33.515	0.0088		
								1732	25.386	0.0099		
								1736	18.739	0.0105		
								1740	19.179	0.0111		
								1743	21.128	0.0115		
								1745	21.280	0.0119		
								1748	20.148	0.0123		
								1752	17.244	0.0129		
								1754	13.411	0.0131		
								1802	9.801	0.0138		
								1811	7.188	0.0144		
								1816	4.510	0.0146		
								1819	3.413	0.0147		
								1824	2.122	0.0148		
								1828	2.058	0.0148		
								1831	1.476	0.0149		
								1835	0.946	0.0149		
								1838	0.946	0.0149		
								1843	0.420	0.0150		
								1847	0.137	0.0150		
								1852	0.052	0.0150		
								1912	0.009	0.0150		
								1953	0.004	0.0150		
								2059	0.0	0.0150		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000447.



EVENT OF SEPTEMBER 6, 1976
TOMBSTONE, ARIZONA WATERSHED W-3

TOMBSTONE, ARIZONA W-4

LOCATION: Cochise County, Arizona; 2 miles north of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 44 min. 19 sec. N.; Long. 110 deg. 02 min. 40 sec. W.

AREA: 560.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							TOMBSTONE, ARIZONA W-4												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1975	P	0.20	0.81	0.15	0.43	0.89	0.15	2.09	0.64	2.07	0.83	0.29	0.06	8.61					
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.0	0.0	0.0	0.025					
STA AV	P	0.48	0.38	0.50	0.15	0.12	0.32	3.31	2.84	1.39	0.65	0.40	0.62	11.16					
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.299	0.127	0.032	0.004	0.0	0.0	0.462					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		9- 6	0.040	9- 6	0.017	9- 6	0.018	9- 6	0.018	9- 6	0.018	9- 5	0.018	9- 4	0.018	9- 2	0.025		
MAXIMUMS FOR PERIOD OF RECORD																			
		7-19	2.250	7-19	0.980	7-19	1.100	7-19	1.100	7-19	1.100	7-19	1.630	7-19	1.630	7-19	4.370		
		1955		1955		1955		1955		1955		1955		1955		1955			

NOTES: Watershed conditions: Vegetative cover: 100% dominated by desert shrubs (whitethorn, creosotebush, and tarbush) with a crown spread of approximately 38% and an understory of grasses with approximately 0.6% basal cover. For topography, geological, and vegetative maps, see pages 63.1-3, 63.1-4 and 63.1-5 respectively of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Record began July 1954. Monthly totals are Thiessen weighted averages of four rain gages, STA AV values are based on record period (1955-76). Runoff Data: Records began January 1955, STA AV values are based on 20 yr record period, (1955-76) and (1961-76). Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1976 DAILY PRECIPITATION (inches)													TOMBSTONE, ARIZONA W-4	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.20	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.15E	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0		
5	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0		
6	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.76	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.02	0.0	0.0	0.0		
9	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0		
10	0.0	0.18	0.0	0.0	0.0	0.0	0.04	0.13	0.51E	0.0	0.0	0.0		
11	0.0	0.09	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.09	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.33	0.18E	0.0		
14	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0		
15	0.0	0.0	0.0	0.03	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.39E	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.12	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.78	0.0	0.05	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.10	0.0	0.08	0.06	0.0	0.0	0.02	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.06	0.0	0.0		
22	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.02	0.0	0.0		
23	0.13	0.0	0.0	0.0	0.0	0.0	0.25	0.07	0.0	0.0	0.0	0.0		
24	0.03	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.13	0.07	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.02	0.0	0.09	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.07	0.09	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.08	0.27	0.0	0.0	0.0	0.0	0.06E		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.20	0.81	0.15	0.43	0.89	0.15	2.09	0.64	2.07	0.83	0.29	0.06		
STA AV	0.48	0.38	0.50	0.15	0.12	0.32	3.31	2.84	1.39	0.65	0.40	0.62		

NOTES: Data are Thiessen weighted averages of values from four gages. STA AV values are based on record period (1955-76).

1976 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-4												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.420	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.175	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0198	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.299	0.127	0.032	0.004	0.0	0.0

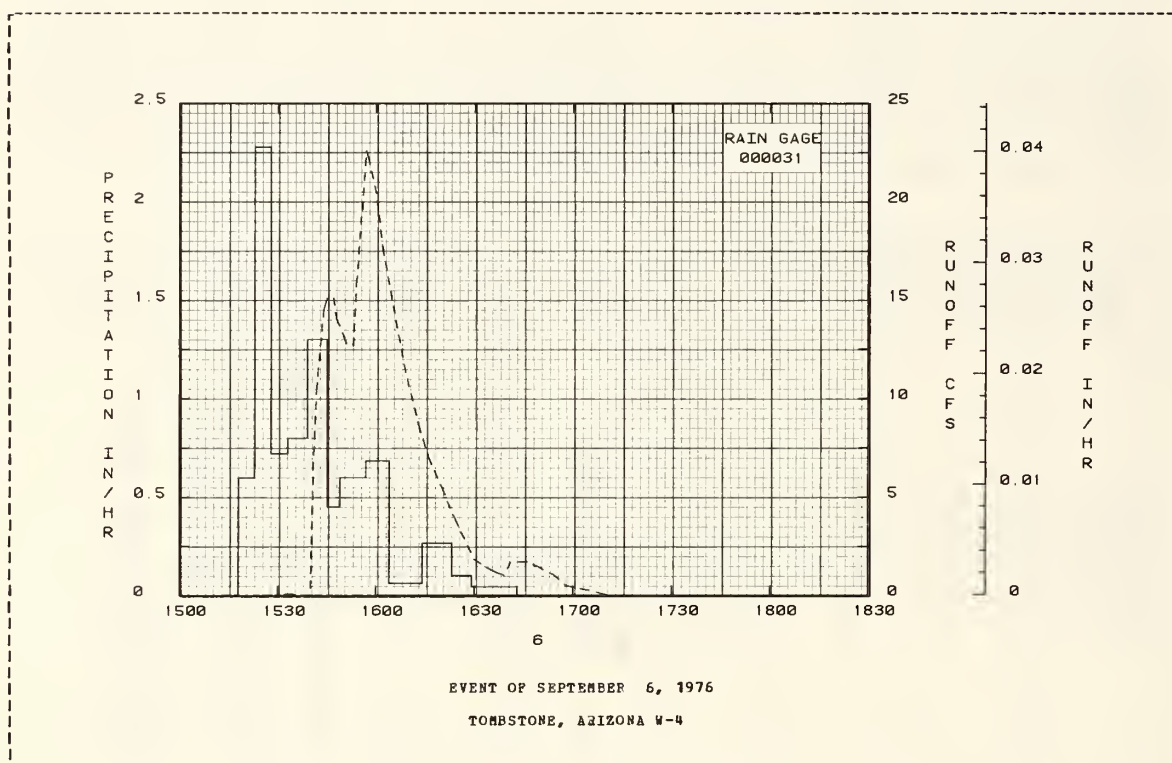
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.042503. STA AV values are based on record period (1955-58) and (1961-76).

1976 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA W-4										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 6, 1976										
RG 000031			RG 000031							
9- 6	0.0	0.0	9- 6	1518	0.0	0.0	9- 6	1527	0.0	0.0
				1523	0.6000	0.05		1530	0.025	0.0
				1528	2.2600	0.24		1533	0.098	0.0000
				1533	0.7200	0.30		1538	0.016	0.0000
				1539	0.8000	0.38		1540	0.018	0.0000
WATERSHED CONDITIONS: 100% of area dominated by desert shrubs (whitehorn, creosotebush and tarbush) with a crown spread of approximately 33% and an understory of grasses with approximately 0.6% basal cover.				1545	1.3000	0.51		1541	7.231	0.0001
				1549	0.4500	0.54		1542	10.814	0.0004
				1557	0.6000	0.62		1544	14.526	0.0011
				1604	0.6857	0.70		1545	15.110	0.0016
				1614	0.0600	0.71		1547	15.110	0.0025
				1623	0.2667	0.75		1548	14.032	0.0029
				1629	0.1000	0.76		1551	12.783	0.0041
				1643	0.0429	0.77		1553	12.703	0.0048
								1554	15.871	0.0053
								1557	22.612	0.0070
								1558	21.910	0.0076
								1600	20.435	0.0089
								1602	17.652	0.0100
								1606	13.950	0.0119
								1609	11.344	0.0130
								1613	8.634	0.0142
								1616	7.000	0.0149
								1620	5.470	0.0156
								1625	3.537	0.0163
								1630	1.812	0.0166
								1635	1.284	0.0169
								1639	1.017	0.0170
								1641	1.698	0.0171
								1646	1.720	0.0173
								1649	1.483	0.0175

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001771.

1976 SELECTED RUNOFF EVENT						TOMBSTONE, ARIZONA W-4				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Rnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 6, 1976 (CONTINUED)										
							9- 6	1654	1.050	0.0177
								1658	0.489	0.0178
								1705	0.259	0.0178
								1710	0.042	0.0179
								1715	0.0	0.0179

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001771.



TOMBSTONE, ARIZONA W-8

LOCATION: Cochise County; 1-1/2 miles northeast of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 43 min. 23 sec. N.; Long. 110 deg. 02 min. 39 sec. W.

AREA: 3830.00 acres 5.98 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							TOMBSTONE, ARIZONA W-8							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.26	0.96	0.13	0.40	1.17	0.31	3.71	1.28	2.40	0.99	0.38	0.12	12.11
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.094	0.000	0.186	0.0	0.0	0.0	0.280
STA AV	P	0.38	0.55	0.61	0.20	0.22	0.35	3.03	2.86	1.65	0.85	0.34	0.41	11.46
	Q	0.0	0.0	0.0	0.0	0.0	0.004	0.050	0.114	0.078	0.003	0.0	0.0	0.249
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
		Maximum Discharge Date	1 Hour Date	2 Hours Date	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date					
1976		7-27 0.166	9- 6 0.108	9- 6 0.140	9- 6 0.149	9- 6 0.149	9- 5 0.171	9- 5 0.171	9- 2 0.186					
MAXIMUMS FOR PERIOD OF RECORD														
		7-22 1.110	7-22 0.310	7-22 0.320	7-22 0.340	7-22 0.340	7-22 0.340	7-22 0.340	9- 5 0.413					
		1964	1964	1964	1964	1964	1964	1964	1975					

NOTES: Watershed conditions: Vegetative cover: approximately 33% of area is dominated by desert shrubs (white-thorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. The remaining 67% of the area is dominated by grasses (black grama, curly mesquite, sideoats grama) with a basal area of about 2.5% interspersed by desert shrubs with a crown spread of 5%. For topographic, geologic, and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began 1963. Monthly totals are Thiessen weighted averages of 17 gages, STA AV values are based on 1968-76 data. Runoff Data: Records began 1963, STA AV values are based on 1966, 1968-76 data. Temperature Data: See table of daily maximum and minimum values included for watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1976		DAILY PRECIPITATION (inches)						TOMBSTONE, ARIZONA W-8					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.17E	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.13S	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.05E	0.0 E	0.0	0.04E	0.0	0.0	0.0	0.45E	0.0	0.0	0.0	
5	0.0	0.46E	0.0	0.0	0.0	0.0	0.01	0.0	0.63E	0.0	0.0	0.0	
6	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.67E	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.07E	0.0	0.0	0.0	
9	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	
10	0.0	0.22E	0.0	0.0	0.0	0.0	0.08	0.24E	0.34	0.0	0.0	0.0	
11	0.0	0.13E	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.09	0.0	0.0	0.19	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.41	0.16M	0.0	
14	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	
15	0.0	0.0	0.0	0.03	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.30E	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.01	0.0	0.01	0.46	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.98E	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.13E	0.0	0.35E	0.12	0.0	0.0	0.01	0.0	
20	0.0	0.0	0.0	0.0	0.01	0.0	0.19	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.10	0.0	0.0	
22	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.03	0.0	0.0	
23	0.13	0.0	0.0	0.0	0.0	0.0	0.14	0.04E	0.0	0.0	0.0	0.0	
24	0.06	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.17E	0.04E	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	1.06E	0.16	0.0	0.20	0.02	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.16	0.39	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.08	0.48	0.0	0.0	0.0	0.0	0.12E	
30	0.0	0.0	0.0	0.0	0.0	0.07	0.01	0.0	0.0	0.0	0.0	0.0	
31	0.0		0.0		0.0		0.0	0.02		0.0		0.0	
TOTAL	0.26	0.96	0.13	0.40	1.17	0.31	3.71	1.28	2.40	0.99	0.38	0.12	
STA AV	0.38	0.55	0.61	0.20	0.22	0.35	3.03	2.86	1.65	0.85	0.34	0.41	

NOTES: Data are Thiessen weighted averages from 17 rain gages. STA AV values are based on 1968-76 data.

1976 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-8												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.514	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.044	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.327	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	14.671	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.113	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.415	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.4903	0.0006	0.9961	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.094	0.000	0.186	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.004	0.050	0.114	0.078	0.003	0.0	0.0

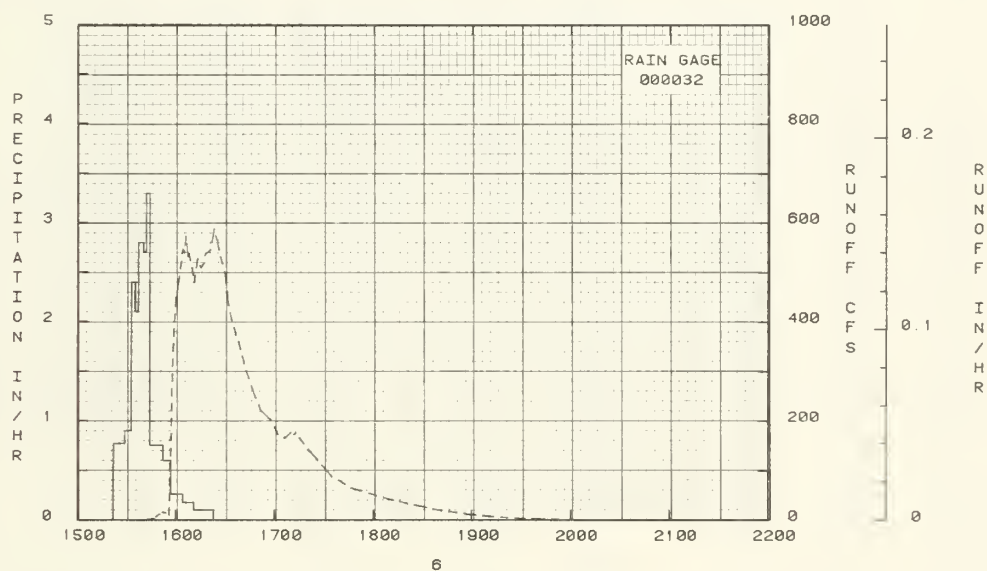
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.006215. STA AV values are based on 10 yr (1966, 1968-76) record period.

1976 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA W-8										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 6, 1976										
RG 000032			RG 000032							
9- 6	0.0	0.000	9- 6	1522	0.0	0.0	9- 6	1538	0.0	0.0
				1529	0.7714	0.09		1539	0.106	0.0
				1531	0.9000	0.12		1542	0.214	0.0
				1533	0.9000	0.15		1543	0.848	0.0
				1535	2.4000	0.23		1544	2.050	0.0000
WATERSHED CONDITIONS: Vegetative cover: Approximately 33% of the area is dominated by desert shrubs (whitethorn, creosotebush, taroosh) with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. The remaining 67% of the area is dominated by grasses (black grama, curly mesquite, sideoats grama) with a basal area of about 2.5%, interspersed by desert shrubs with a crown spread of about 5%.				1537	2.1000	0.30		1547	2.513	0.0000
				1540	2.8000	0.44		1548	7.037	0.0001
				1542	2.7000	0.53		1550	11.635	0.0001
				1544	3.3000	0.64		1552	15.543	0.0003
				1548	0.7500	0.69		1554	13.408	0.0004
				1552	0.7500	0.74		1556	10.000	0.0005
				1557	0.6000	0.79		1558	325.714	0.0019
				1604	0.2571	0.82		1559	401.197	0.0035
				1611	0.1714	0.84		1600	449.668	0.0053
				1623	0.1000	0.86		1602	492.016	0.0094
								1604	548.060	0.0139
								1605	538.458	0.0162
								1606	571.966	0.0186
								1607	530.658	0.0210
								1608	538.021	0.0233
								1611	478.852	0.0299
								1613	527.641	0.0342
								1615	508.008	0.0387
								1617	519.062	0.0431
								1618	538.021	0.0454
								1621	544.559	0.0524
								1623	588.167	0.0573
								1626	544.996	0.0647
								1630	491.133	0.0736
								1632	432.516	0.0776

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000259.

1976	SELECTED RUNOFF EVENT					TOMBSTONE, ARIZONA W-8				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 6, 1976 (CONTINUED)										
							9- 6	1634	401.995	0.0812
								1638	358.153	0.0877
								1643	299.217	0.0948
								1647	259.486	0.0997
								1652	219.303	0.1048
								1658	201.235	0.1103
								1702	172.752	0.1135
								1706	164.705	0.1164
								1710	176.428	0.1193
								1712	172.752	0.1209
								1713	176.713	0.1216
								1715	165.802	0.1231
								1721	139.324	0.1270
								1726	120.376	0.1298
								1731	101.477	0.1322
								1735	86.441	0.1338
								1748	62.694	0.1380
								1753	58.293	0.1393
								1802	48.757	0.1414
								1812	39.780	0.1433
								1828	27.566	0.1457
								1842	18.337	0.1470
								1858	11.075	0.1481
								1913	6.607	0.1486
								1928	3.504	0.1490
								1944	1.815	0.1491
								1958	0.819	0.1492
								2014	0.329	0.1493
								2028	0.089	0.1493
								2053	0.0	0.1493

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000259.



EVENT OF SEPTEMBER 6, 1976
TOMBSTONE, ARIZONA W-8

TOMBSTONE, ARIZONA W-11

LOCATION: Cochise County; 4-1/3 miles northeast of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 44 min. 28 sec. N.; Long. 109 deg. 59 min. 40 sec. W.

AREA: 2035.00 acres 3.18 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							TOMBSTONE, ARIZONA W-11										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.30	1.03	0.11	0.36	1.30	0.37	4.42	1.61	2.29	0.97	0.38	0.13	13.27			
	Q	0.0	0.000	0.0	0.0	0.002	0.0	0.190	0.021	0.098	0.0	0.0	0.0	0.312			
STA AV	P	0.40	0.56	0.57	0.20	0.25	0.33	3.16	2.99	1.64	0.83	0.34	0.42	11.69			
	Q	0.0	0.000	0.0	0.0	0.000	0.002	0.085	0.134	0.090	0.004	0.0	0.0	0.315			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		7-27	0.253	7-27	0.133	7-27	0.147	7-27	0.148	7-27	0.148	7-27	0.148	7-27	0.183	7-21	0.183
MAXIMUMS FOR PERIOD OF RECORD																	
		9-5	0.574	9-10	0.620	9-9	0.750	9-9	0.770	9-9	0.970	9-9	0.970	9-10	1.460	9-8	1.700
		1975		1964		1964		1964		1964		1964		1964		1964	

NOTES: Watershed conditions: Approximately 20% of the area dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with a basal area of less than 1%. The remaining 80% of the area supports a grass cover (black grama, curly mesquite, sidecoats grama) with a basal cover of about 2.5% interspersed with desert shrubs averaging less than 5% crown. For contour map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 63.1-3. For geologic map (p. 63.1-4) and vegetation map (p. 63.1-5) of foregoing reference. Precipitation Data: Records began 1963. Monthly totals are Thiessen weighted averages of 10 rain gages, STA AV values are based on 9 yr (1968-76) record period. Runoff Data: Records began 1963, STA AV values are based on 1966, 1968-76 data. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1976 DAILY PRECIPITATION (inches)													TOMBSTONE, ARIZONA W-11	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.15	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.11E	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.07E	0.0 E	0.0	0.06E	0.0	0.0	0.0	0.43E	0.0	0.0	0.0		
5	0.0	0.49E	0.0	0.0	0.0	0.0	0.02	0.0	0.72E	0.0	0.0	0.0		
6	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.61E	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.08	0.0	0.0	0.0		
9	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.24E	0.0	0.0	0.0	0.0	0.06	0.40E	0.20	0.0	0.0	0.0		
11	0.0	0.14E	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.04	0.0	0.0	0.19	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.39	0.16E	0.0		
14	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0		
15	0.0	0.0	0.0	0.08	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.26E	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.01	0.0	0.01	0.61	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	1.08	0.0	0.02	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.14	0.0	0.55E	0.11	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.01	0.0	0.24	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.12	0.0	0.0		
22	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.03	0.0	0.0		
23	0.14	0.0	0.0	0.0	0.0	0.0	0.07	0.04	0.0	0.0	0.0	0.0		
24	0.08	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.18	0.04	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	1.26	0.18	0.0	0.21	0.03	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.22	0.57	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.04	0.56	0.0	0.0	0.0	0.0	0.13E		
30	0.0	0.0	0.0	0.0	0.0	0.11	0.02	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0		
TOTAL	0.30	1.03	0.11	0.36	1.30	0.37	4.42	1.61	2.29	0.97	0.38	0.13		
STA AV	0.40	0.56	0.57	0.20	0.25	0.33	3.16	2.99	1.64	0.83	0.34	0.42		

NOTES: Data are Thiessen weighted averages of 10 rain gages. STA AV values are based on 9 yr (1968-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-11												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	2.132	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.269	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.114	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.816	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.195	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.423	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.058	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	12.685	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.917	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	2.075	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0001	0.0	0.0	0.0063	0.0	0.5249	0.0586	0.2801	0.0	0.0	0.0
INCHES	0.0	0.000	0.0	0.0	0.002	0.0	0.190	0.021	0.098	0.0	0.0	0.0
STA AV	0.0	0.000	0.0	0.0	0.000	0.002	0.085	0.134	0.090	0.004	0.0	0.0

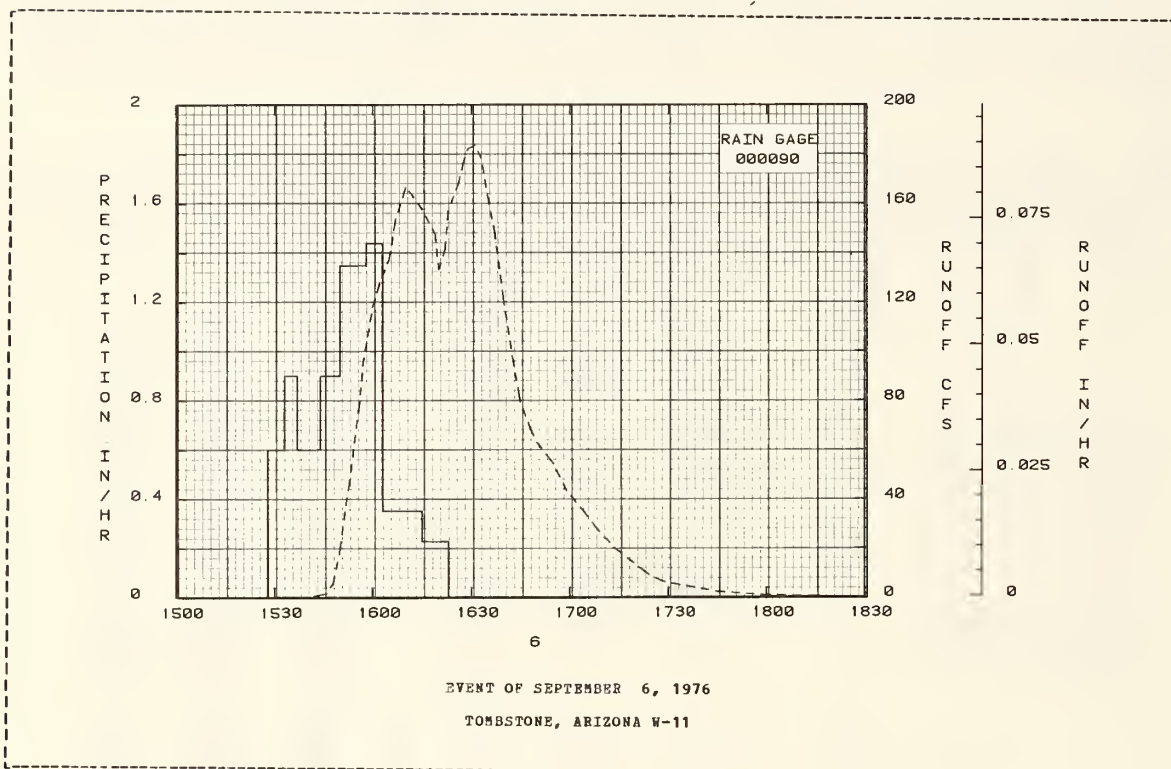
NOTES: To convert mean daily discharge values in CFS to IN/ DAY, multiply by 0.011696. STA AV values are based on 9 yr (1966, 1968-75) record period.

1976 SELECTED RUNOFF EVENT						TOMBSTONE, ARIZONA W-11					
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 6, 1976											
RG 000090											
9- 6	0.0	0.000	9- 6	1528	0.0	0.0	9- 6	1536	0.0	0.0	
				1533	0.6000	0.05		1540	0.232	0.0	
				1537	0.9000	0.11		1546	1.704	0.0001	
				1544	0.6000	0.18		1548	5.706	0.0001	
				1550	0.9000	0.27		1550	19.834	0.0003	
WATERSHED CONDITIONS:				1558	1.3500	0.45	1553	48.220	0.0011		
Vegetative cover: Approx-				1603	1.4400	0.57	1556	79.358	0.0027		
imately 20% of the area is				1615	0.3500	0.64	1557	94.523	0.0034		
dominated by desert shrubs				1623	0.2250	0.67	1600	118.338	0.0060		
(whitethorn, creosotebush,							1602	127.651	0.0080		
tarbush) with a crown											
spread of approximately							1605	137.603	0.0112		
30% cover and an understory							1607	153.969	0.0136		
of grasses with basal area							1610	166.640	0.0175		
of less than 1%. The							1611	164.991	0.0189		
remaining 80% of the area							1615	157.686	0.0241		
supports a grass cover											
(black grama, curly mesquite,							1619	147.455	0.0291		
sideoats grama) with basal							1620	133.183	0.0302		
cover of about 2.5% inter-							1622	141.599	0.0324		
spersed with desert shrubs							1623	157.418	0.0336		
averaging less than 5%							1626	168.020	0.0376		
crown cover.											
							1628	178.720	0.0404		
							1629	182.464	0.0419		
							1631	183.916	0.0449		
							1633	178.434	0.0478		
							1635	162.536	0.0506		
							1637	148.487	0.0531		
							1640	118.794	0.0564		
							1643	93.920	0.0590		
							1645	79.175	0.0604		
							1648	68.307	0.0622		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000487.

1976 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-11								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 6, 1976 (CONTINUED)											
							9- 6	1650	62.721	0.0632	
								1655	54.092	0.0656	
								1659	43.239	0.0672	
								1704	35.094	0.0688	
								1709	26.465	0.0700	
								1714	19.496	0.0709	
								1724	9.021	0.0721	
								1729	6.013	0.0724	
								1745	2.148	0.0729	
								1759	0.738	0.0731	
								1814	0.225	0.0732	
								1830	0.032	0.0732	
								1842	0.0	0.0732	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000487.



TOMBSTONE, ARIZONA W-15

LOCATION: Cochise County; 3/4 miles east of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 42 min. 46 sec. N.; Long. 110 deg. 02 min. 25 sec. W.

AREA: 5912.00 acres 9.24 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)										TOMBSTONE, ARIZONA W-15							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.25	1.00	0.18	0.37	0.49	0.13	3.55	1.76	2.37	1.31	0.47	0.07	11.95			
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.026	0.064	0.098	0.0	0.0	0.0	0.188			
STA AV	P	0.44	0.50	0.58	0.19	0.17	0.34	3.57	3.00	1.44	0.69	0.33	0.83	12.07			
	Q	0.0	0.0	0.002	0.0	0.0	0.003	0.044	0.105	0.025	0.001	0.0	0.0	0.180			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		9- 6	0.092	9- 6	0.065	9- 6	0.060	9- 6	0.088	9- 6	0.088	9- 5	0.098	9- 5	0.098	9- 2	0.098
MAXIMUMS FOR PERIOD OF RECORD																	
		6-10	0.211	8-10	0.144	9-10	0.180	8-19	0.200	8-19	0.200	8-19	0.230	8-19	0.250	8-19	0.250
		1971		1971		1971		1966		1966		1966		1966		1966	

NOTES: Watershed conditions: Vegetative cover: Desert shrubs (whitethorn, creosotebush, tarbush) occupy 78% of the area with a crown spread of approximately 30% and an understory of grasses of less than 1% basal area. 22% of the area is in grass cover (black grama, tobosa grass, blue grama, sideoats grama, and curly mesquite grass) of approximately 2% basal area. For topographic, geologic, and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began January 1965. Monthly totals Thiessen weighted averages of 15 rain gages. Runoff Data: Records began January 1965. Station averages for precipitation and runoff based on 1965-1976 record period. Temperature Data: For table of daily maximum and minimum values, see information included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

DAILY PRECIPITATION (inches)														TOMBSTONE, ARIZONA W-15	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.25	0.0	0.0			
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.0	0.0	0.18S	0.0	0.02	0.0	0.14E	0.0	0.0	0.0	0.0	0.0			
4	0.0	0.01E	0.0	0.0	0.0 T	0.0	0.0	0.0	0.31E	0.0	0.0	0.0			
5	0.0	0.55E	0.0	0.0	0.0	0.0	0.0	0.0	0.78E	0.0	0.0	0.0			
6	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.68E	0.0	0.0	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.05E	0.0	0.0	0.0			
9	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0			
10	0.0	0.22E	0.0	0.0	0.0	0.0	0.18	0.69E	0.34	0.0	0.0	0.0			
11	0.0	0.12	0.0	0.0	0.0	0.0	0.45E	0.0	0.0	0.0	0.0	0.0			
12	0.0	0.0	0.0	0.0	0.0	0.0	0.53E	0.32E	0.0	0.0	0.22E	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.45E	0.24E	0.0			
14	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0			
15	0.0	0.0	0.0	0.03E	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.32E	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.17E	0.0	0.0	0.0	0.0			
18	0.0	0.0	0.0	0.0	0.43	0.0	0.08E	0.0	0.0	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.0	0.04	0.0	0.20E	0.07E	0.0	0.0	0.0 E	0.0			
20	0.0	0.0	0.0	0.0	0.0	0.0	0.34E	0.0 T	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.23E	0.0	0.0			
22	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.04E	0.0	0.0			
23	0.14	0.0	0.0	0.0	0.0	0.0	0.15E	0.03	0.0	0.0	0.0	0.0			
24	0.02	0.0	0.0	0.0	0.0	0.0	0.01	0.02E	0.18	0.04E	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.03	0.01	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
27	0.0	0.0	0.0	0.0	0.0	0.0	0.62E	0.10	0.0	0.25E	0.01E	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.03	0.41E	0.0	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.0	0.0	0.0	0.09	0.11E	0.0	0.0	0.0	0.0	0.07E			
30	0.0	0.0	0.0	0.0	0.0	0.01	0.03	0.0	0.0	0.0	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0			
TOTAL		0.25	1.00	0.18	0.37	0.49	0.13	3.55	1.76	2.37	1.31	0.47	0.07		
STA AV		0.44	0.50	0.58	0.19	0.17	0.34	3.57	3.00	1.44	0.69	0.33	0.83		

NOTES: Data are Thiessen weighted averages of 15 rain gages. STA AV values are based on 12 yr record period (1965-76).

1976 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-15												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.265	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.052	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.396	0.030	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	2.745	2.508	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	3.590	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.2048	0.5130	0.8118	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.026	0.064	0.098	0.0	0.0	0.0
STA AV	0.0	0.0	0.002	0.0	0.0	0.003	0.044	0.105	0.025	0.001	0.0	0.0

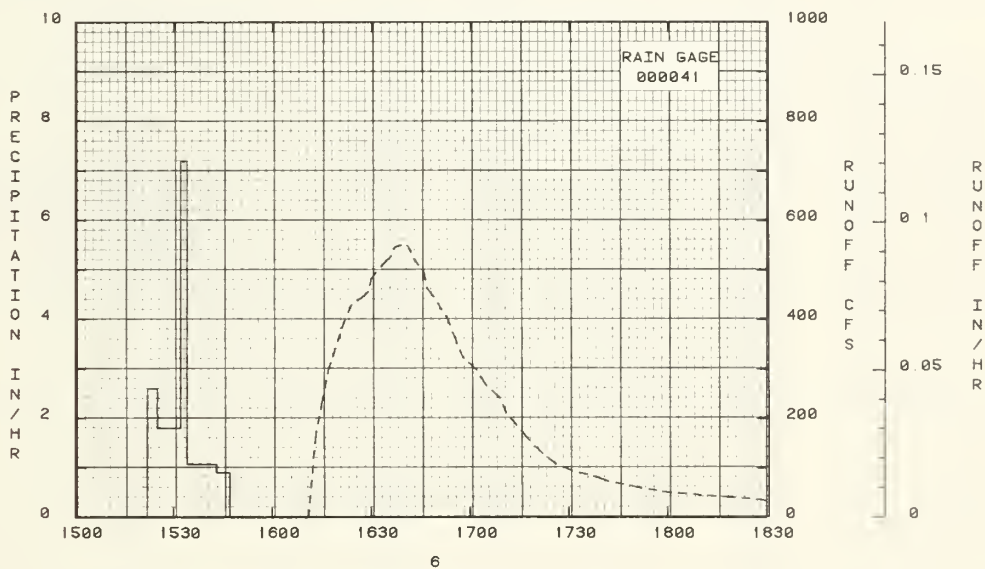
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.004026. STA AV values are based on 12 yr record period (1965-1976).

1976 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA W-15											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 6, 1976											
9- 6	RG 000041	0.001	9- 6	1522	0.0	0.0	9- 6	1525	0.0	0.0	
	0.0			1525	2.6000	0.13		1527	0.017	0.0	
				1532	1.8000	0.34		1531	0.017	0.0	
				1534	7.2000	0.58		1535	0.085	0.0	
				1543	1.0667	0.74		1538	0.249	0.0	
				1547	0.9000	0.80		1540	0.337	0.0	
WATERSHED CONDITIONS: Vegetative cover: Desert shrubs (whitethorn, creosote-bush, tarbush) occupy 78% of area with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. 22% of the area supports a grass cover (black grama, tobosa, blue grama, sideoats grama and curly mesquite) of approximately 2% basal area.								1542	0.337	0.0	
								1545	0.264	0.0	
								1548	0.373	0.0	
								1551	0.421	0.0	
								1554	0.483	0.0	
								1600	0.483	0.0000	
								1603	0.346	0.0000	
								1611	0.181	0.0000	
								1613	159.279	0.0005	
								1615	232.166	0.0016	
								1617	298.445	0.0030	
								1622	401.197	0.0079	
								1624	429.621	0.0102	
								1629	455.177	0.0164	
								1630	483.219	0.0177	
								1633	508.007	0.0219	
								1636	528.501	0.0262	
								1637	546.308	0.0277	
								1639	550.693	0.0308	
								1641	548.936	0.0339	
								1643	521.627	0.0369	
								1646	494.228	0.0411	
								1647	460.292	0.0425	
								1649	445.456	0.0450	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000168.

1976			SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-15					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 6, 1976 (CONTINUED)											
							9- 6	1653	402.395	0.0497	
								1656	351.781	0.0529	
								1658	322.482	0.0548	
								1702	297.674	0.0583	
								1705	265.585	0.0606	
								1709	240.628	0.0634	
								1711	210.954	0.0647	
								1714	186.246	0.0664	
								1718	154.746	0.0683	
								1722	128.581	0.0699	
								1726	107.650	0.0712	
								1731	94.093	0.0726	
								1738	81.910	0.0743	
								1742	73.251	0.0752	
								1752	58.910	0.0770	
								1801	50.021	0.0784	
								1818	40.910	0.0806	
								1828	35.667	0.0816	
								1838	32.913	0.0826	
								1848	29.641	0.0835	
								1902	23.943	0.0845	
								1919	18.581	0.0855	
								1933	14.597	0.0862	
								1948	11.198	0.0867	
								2003	8.205	0.0871	
								2018	5.119	0.0874	
								2033	3.122	0.0876	
								2043	2.123	0.0876	
								2053	1.575	0.0877	
								2114	1.205	0.0878	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000168.



EVENT OF SEPTEMBER 6, 1976
TOMBSTONE, ARIZONA W-15

LOCATION: Cochise County; 2 miles north of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin
Lat. 31 deg. 44 min. 30 sec. N.; Long. 110 deg. 03 min. 15 sec. W.

AREA: 9.10 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								TOMBSTONE, ARIZONA WATERSHED W-103									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.26	1.01	0.13	0.46	1.02	0.14	2.31	1.12	2.13	1.16	0.34	0.13	10.21			
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.481	0.001	0.0	0.0	0.485			
STA AV	P	0.38	0.45	0.52	0.19	0.19	0.30	3.38	2.49	1.79	0.69	0.29	0.86	11.52			
	Q	0.0	0.0	0.0	0.0	0.0	0.010	0.339	0.252	0.193	0.029	0.0	0.005	0.828			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		9- 6	1.775	9- 6	0.395	9- 6	0.398	9- 6	0.398	9- 6	0.398	9- 5	0.398	9- 4	0.398	9- 2	0.481
MAXIMUMS FOR PERIOD OF RECORD																	
		7-17	3.676	7-17	1.572	7-17	1.615	7-17	1.615	7-17	1.615	7-16	1.615	7-15	1.615	7- 9	2.070
		1975		1975		1975		1975		1975		1975		1975		1975	

NOTES: Watershed Conditions: Vegetative cover: Entire area dominated by desert shrubs (whitethorn, creosote-bush, and tarbush) with crown spread of about 25% and an understory of grasses with about 0.6% basal cover. For contour map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 63.1-3. For geologic and vegetative maps, see p. 63.1-4 and 63.1-5 of foregoing reference. Precipitation Data: Records began January 1965. Monthly totals are values from rain gage No. 83. STA AV values are based on 1965-76 data. Runoff Data: Records began January 1965. STA AV values are based on data for the record period 1965-76. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

TOMBSTONE, ARIZONA WATERSHED W-103													
1976 DAILY PRECIPITATION (inches)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.20	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.13E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	
5	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	
6	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.93	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.05	0.0	0.0	
9	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	
10	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	
11	0.0	0.13	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.14	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.34	0.18	0.0	
14	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	
15	0.0	0.0	0.0	0.05	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.39E	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.14	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.93	0.0	0.19	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.09	0.0	0.10	0.15	0.0	0.0	0.02	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.13	0.0	0.0	
22	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
23	0.13	0.0	0.0	0.0	0.0	0.0	0.32	0.07	0.0	0.0	0.0	0.0	
24	0.05	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.17	0.22	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.02E	0.0	0.12	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.04	0.13	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.10	0.24	0.0	0.0	0.0	0.0	0.13	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.26	1.01	0.13	0.46	1.02	0.14	2.31	1.12	2.13	1.16	0.34	0.13	
STA AV	0.38	0.45	0.52	0.19	0.19	0.30	3.38	2.49	1.79	0.69	0.29	0.86	

NOTES: Data are values from rain gage No. 83. STA AV values are based on 12 yr (1965-76) record period.

TOMBSTONE, ARIZONA WATERSHED W-103												
1976	MEAN DAILY DISCHARGE (cfs)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.139	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.029E	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0056	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.481	0.001	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.010	0.335	0.252	0.193	0.029	0.0	0.005

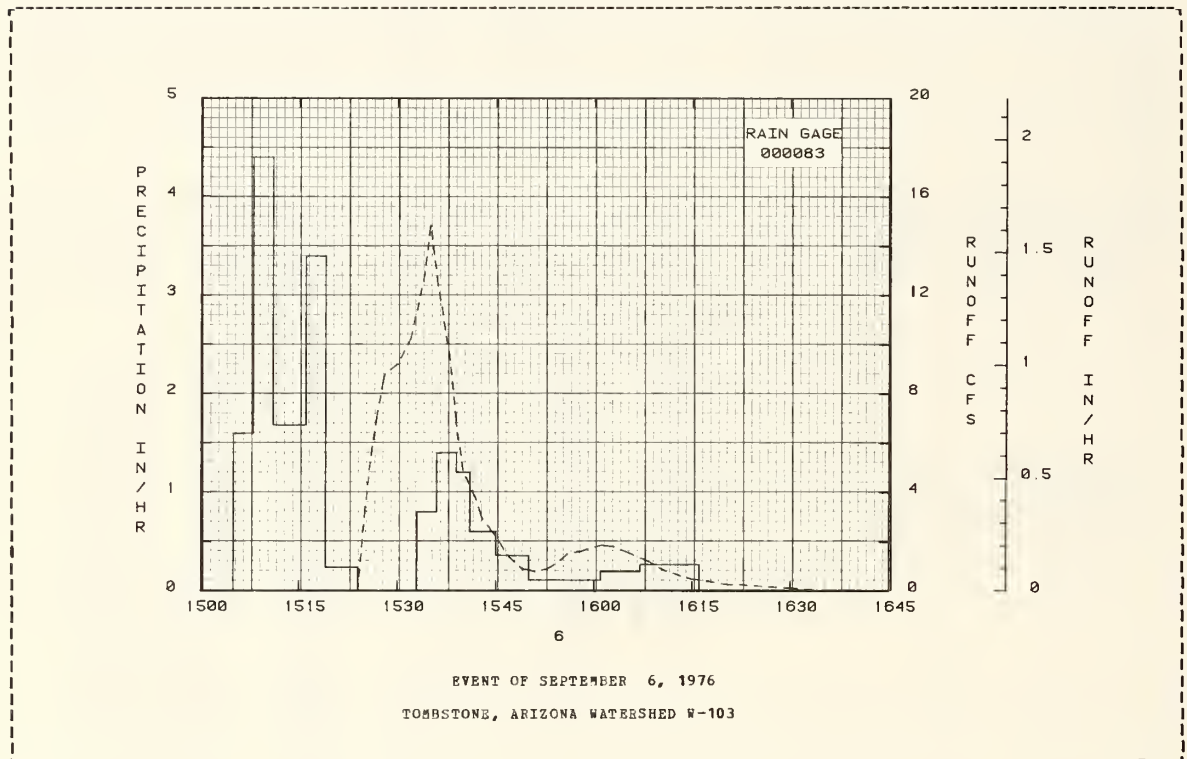
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.615566. STA AV values are based on 12 yr (1965-76) record period.

TOMBSTONE, ARIZONA WATERSHED W-103												
1976 SELECTED RUNOFF EVENT												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF SEPTEMBER 6, 1976												
9- 6	RG 000083	0.0	9- 6	RG 000083			9- 6					
	0.0	0.0		1505	0.0	0.0		1524	0.0	0.0		
				1508	1.6000	0.08		1525	3.134	0.0062		
				1511	4.4000	0.30		1526	5.554	0.0173		
				1516	1.6800	0.44		1527	7.321	0.0315		
				1519	3.4000	0.61		1528	8.793	0.0494		
WATERSHED CONDITIONS: Vegetative cover: Entire area dominated by desert shrubs (whitethorn, creosote-bush, and tarbush) with a crown spread of about 25% and an understory of grasses with about 0.6% basal cover.					1524	0.2400	0.63		1530	9.203	0.0661	
					1533	0.0	0.63		1532	10.231	0.1268	
					1536	0.8000	0.67		1534	12.463	0.1772	
					1539	1.4000	0.74		1535	14.356	0.2066	
					1541	1.2000	0.78		1536	12.681	0.2321	
					1545	0.6000	0.92		1538	9.353	0.2694	
					1550	0.3500	0.85		1539	6.685	0.2827	
					1601	0.1091	0.87		1540	4.890	0.2924	
					1607	0.2000	0.89		1542	3.680	0.3071	
					1616	0.2667	0.93		1543	2.894	0.3128	
									1545	2.202	0.3216	
									1547	1.384	0.3271	
									1549	0.896	0.3307	
									1551	0.767	0.3337	
									1553	0.908	0.3373	
									1555	1.267	0.3424	
									1556	1.516	0.3454	
					1558	1.621	0.3519					
					1601	1.654	0.3625					
					1603	1.767	0.3701					
					1605	1.583	0.3764					
					1608	1.230	0.3837					
					1611	0.750	0.3884					
					1615	0.476	0.3922					
					1620	0.279	0.3950					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.108982.

1976			SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-103				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 6, 1976 (CONTINUED)										
							9- 6	1630	0.116	0.3973
								1635	0.027	0.3976
								1641	0.005	0.3976
								1647	0.0	0.3976
								1657	0.0	0.3976
								1700	0.002	0.3977
								1720	0.0	0.3977

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.108982.



SANTA ROSA, NEW MEXICO WATERSHED W-1

LOCATION: Gnadalupe and Quay Counties; 30 miles east of Santa Rosa; Alamogordo Creek, Tributary of Pecos River.
 Lat. 34 deg. 51 min. 53 sec. N.; Long. 104 deg. 12 min. 23 sec. W.

AREA: 42880.0D acres 67.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)								SANTA ROSA, NEW MEXICO WATERSHED W-1											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	0.05	0.53	0.06	0.61	0.79	0.93	4.15	1.51	0.83	0.41	0.20	0.0	10.07					
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.040	0.0	0.0	0.0	0.0	0.0	0.040					
STA AV	P	0.29	0.32	0.47	0.63	0.90	1.25	3.63	2.75	1.57	1.37	0.48	0.25	13.90					
	Q	0.0	0.0	0.0	0.0	0.012	0.008	0.092	0.056	0.017	0.003	0.0	0.0	0.188					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		7- 4	0.023	7- 4	0.021	7- 4	0.031	7- 4	0.038	7- 4	0.039	7- 4	0.039	7- 3	0.040	6-27	0.040		
MAXIMUMS FOR PERIOD OF RECORD																			
		7-20	0.099	7-20	0.087	7-20	0.147	7-20	0.300	7-20	0.350	7-20	0.359	7-18	0.503	7-15	0.509		
		1972		1972		1972		1972		1972		1972		1972		1972			

NOTES: Watershed conditions: Grazing land, about 75% of the area is grassland, vegetation consisting of blue grama, galleta, buffalo and ring muhly. Remaining 25% of area is pinon, juniper, and various shrubs, with some grasses interspersed. Monthly precipitation values are Thiessen weighted averages of 64 rain gages. For contour map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 64.001-3. Precipitation and runoff records began in 1955. STA AV values are based on 9 yr (1968-76), previously published data are being reevaluated. For long-time precipitation records, see National Weather Service records at Santa Rosa, New Mexico.

1976 DAILY PRECIPITATION (inches)														SANTA ROSA, NEW MEXICO WATERSHED W-1													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.01	0.0	0.0	0.0															
2	0.0	0.0	0.0	0.0	0.0	0.07	0.20E	0.09	0.0	0.01E	0.0	0.0															
3	0.0	0.0	0.0	0.0	0.0	0.0 T	0.84E	0.30E	0.0	0.0	0.0	0.0															
4	0.0	0.13E	0.0	0.10E	0.57E	0.11E	0.17E	0.0 T	0.0	0.0	0.0	0.0															
5	0.0	0.01E	0.0	0.0	0.08E	0.0 T	0.0	0.0	0.02E	0.0	0.0	0.0															
6	0.01E	0.0 T	0.0	0.0	0.0	0.49E	0.0	0.0	0.12E	0.18E	0.0	0.0															
7	0.04E	0.03E	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0 E	0.0	0.0															
8	0.0	0.0	0.06E	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
9	0.0	0.0	0.0	0.0	0.0 E	0.0	0.0	0.0 T	0.02E	0.0	0.0	0.0															
10	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0															
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
12	0.0	0.0	0.0	0.02E	0.03E	0.0	0.01E	0.0	0.0	0.0	0.0	0.12M															
13	0.0	0.08E	0.0	0.0	0.0	0.0	0.16E	0.02	0.0 T	0.0	0.0	0.02M															
14	0.0	0.28E	0.0	0.03E	0.0	0.0	0.46E	0.0	0.08	0.0	0.0	0.0															
15	0.0	0.0	0.0	0.05E	0.0	0.0	0.27E	0.0	0.0	0.0	0.0	0.0															
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.06E	0.0	0.0	0.0															
19	0.0	0.0	0.0	0.0 E	0.0	0.0	0.0 T	0.10E	0.36E	0.0	0.0	0.0															
20	0.0	0.0	0.0	0.0	0.05E	0.0	0.80	0.0	0.0	0.0	0.0	0.0															
21	0.0	0.0	0.0	0.0	0.0	0.01E	0.09	0.48E	0.0	0.0	0.0	0.0															
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0															
23	0.0	0.0	0.0	0.0	0.0	0.0	0.38E	0.01E	0.0	0.0	0.0	0.0															
24	0.0	0.0	0.0	0.0	0.0	0.0	0.72E	0.08	0.0 E	0.0	0.0	0.0															
25	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.05E	0.0	0.0	0.0															
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.03M															
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.10M	0.03E	0.0															
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.12M	0.0	0.0															
29	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
30	0.0	0.0	0.0	0.37E	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.37E	0.0	0.0	0.0	0.0															
TOTAL	0.05	0.53	0.06	0.61	0.79	0.93	4.15	1.51	0.83	0.41	0.20	0.0															
STA AV	0.29	0.32	0.47	0.63	0.90	1.25	3.63	2.75	1.57	1.37	0.48	0.25															

NOTES: Daily values are Thiessen weighted average amounts from 64 rain gages. Precipitation records began in 1955. STA AV values are based on 9 yr (1968-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) SANTA ROSA, NEW MEXICO WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	71.141	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.066	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.051	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	2.2996	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.040	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.012	0.008	0.092	0.056	0.017	0.003	0.0	0.0

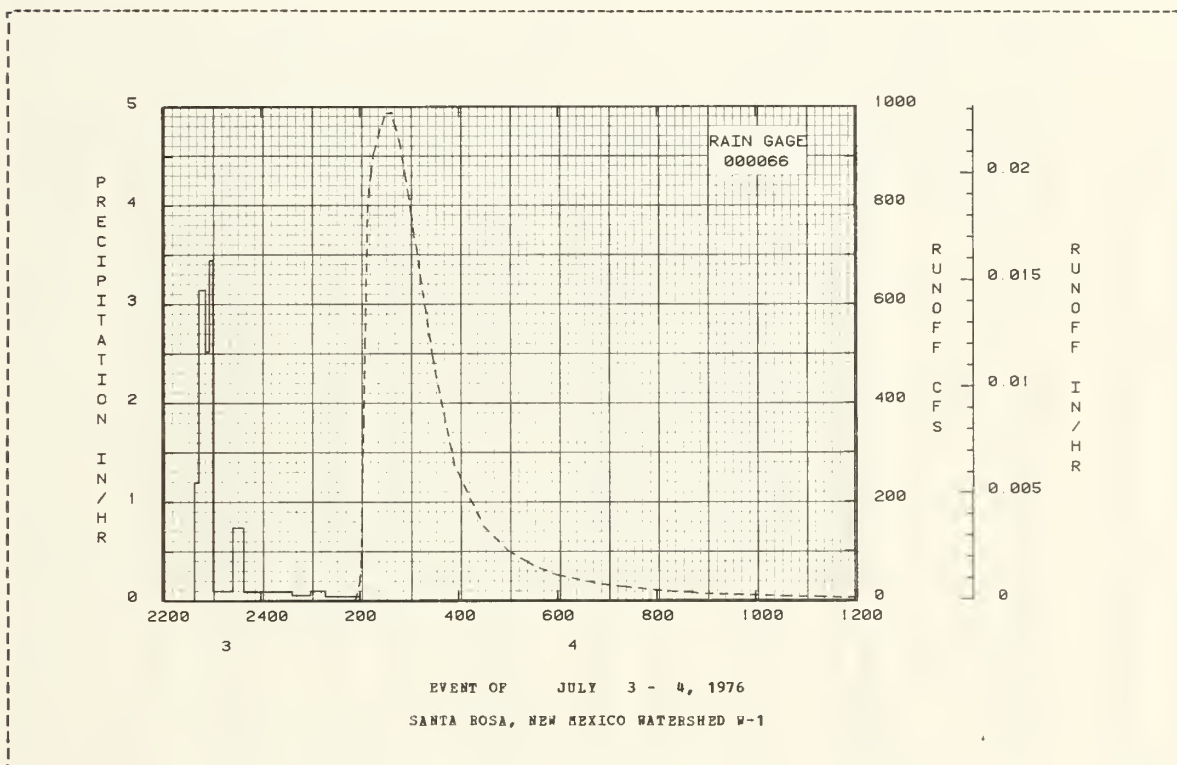
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000555. Runoff records began in 1955. STA AV values are based on 9 yr (1968-76) record period.

1976 SELECTED RUNOFF EVENT SANTA ROSA, NEW MEXICO WATERSHED W-1									
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date	Fainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(inches)
EVENT OF JULY 3 - 4, 1976									
BG 000066									
7- 3	0.0		7- 3	2240	0.0	0.0	7- 4	10	0.0
7- 4		0.0		2245	1.2000	0.10		12	0.032
				2249	3.1500	0.31		20	0.038
				2253	3.1500	0.52		25	0.044
				2258	2.5200	0.73		30	0.050
WATERSHED CONDITIONS:									
Grazing land, about 75% of the area is grassland, vegetation consisting of blue grama, galleta, buffalo and ring molly. Remaining 25% of area is piñon, juniper, and various shrubs, with some grasses interspersed.				2302	3.4500	0.96		50	0.027
				2326	0.1000	1.00		105	0.019
				2339	0.7385	1.16		130	0.014
				2400	0.0857	1.19		140	0.010
			7- 4	38	0.0947	1.25		154	0.010
				100	0.0545	1.27		155	0.600
				118	0.1000	1.30		200	37.641
				200	0.0429	1.33		202	80.904
								205	375.616
								207	532.253
								210	802.758
								212	836.230
								215	880.823
								217	905.335
								220	923.062
								223	940.969
								225	955.426
								228	966.343
								230	981.000
								233	987.635
								239	987.635
								243	962.697
								245	951.801
								248	930.204
								250	915.949

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000231.

1976 SELECTED RUNOFF EVENT			SANTA ROSA, NEW MEXICO WATERSHED W-1							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 3 - 4, 1976 (CONTINUED)										
							7- 4	255	863.529	0.0177
								300	812.725	0.0193
								304	770.000	0.0205
								305	750.561	0.0208
								310	703.111	0.0222
								315	642.383	0.0235
								330	480.000	0.0267
								355	273.250	0.0304
								430	150.213	0.0332
								500	100.144	0.0347
								530	70.654	0.0357
								600	50.563	0.0364
								645	35.004	0.0371
								720	27.214	0.0375
								805	19.645	0.0379
								825	17.445	0.0381
								840	16.200	0.0382
								850	14.609	0.0382
								945	11.057	0.0385

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000231.



REYNOLDS, IDAHO WATERSHED W-1 (036068)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; north flowing tributary to the Snake River. Lat. 43 deg. 15 min. 49 sec. N.; Long. 116 deg. 45 min. 10 sec. W.

AREA: 57700.00 acres 90.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)										REYNOLDS, IDAHO WATERSHED W-1 (036068)									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	1.68	2.55	1.63	1.12	0.76	1.23	0.74	0.87	1.48	0.73	0.09	0.13	13.06					
	Q	0.230	0.162	0.281	0.635	0.821	0.214	0.041	0.030	0.024	0.029	0.033	0.933	2.533					
STA AV	P	2.84	1.56	2.09	1.60	0.90	1.59	0.48	0.90	0.90	1.67	1.92	2.16	18.42					
	Q	0.458	0.281	0.508	0.614	0.664	0.337	0.053	0.023	0.016	0.030	0.053	0.196	3.232					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days					
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
1976		4- 5	0.002	4- 5	0.002	4- 5	0.005	4- 5	0.013	5-13	0.023	5-13	0.042	5-12	0.082	5- 9	0.294		
MAXIMUMS FOR PERIOD OF RECORD																			
		12-23	0.065	12-23	0.064	12-23	0.125	12-23	0.270	12-23	0.327	12-23	0.453	12-23	0.721	12-28	1.313		
		1964		1964		1964		1964		1964		1964		1964		1965			

NOTES: Watershed conditions: Predominantly sagebrush rangeland, 95%; small stands of forest, 2%; permanent fields of flood irrigated alfalfa, 3%. For revised map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968, USDA Misc. Pub. 1330, p. 68.1-6. Records began 1963. Precipitation: 'Computed Actual' amounts from rain gage 116X91. Station average precipitation values are computed from 45 Thiessen weighted gages for record period 1968-75 and one gage for 1976. Station average runoff amounts are based on 1963-76 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles N.E. of watershed.

1976 DAILY AIR TEMPERATURE (degrees F)													REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan		Feb		Mar		Apr		May		Jnn		Jul		Aug		Sep		Oct		Nov		Dec		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	25	12	37	17	31	12	39	23	74	33	77	40	69	41	78	59	93	50	78	44	60	37	45	16	
2	31	13	36	18	33	0	46	16	69	43	63	37	77	40	78	50	83	55	62	40	61	33	44	14	
3	32	16	51	18	31	1	56	30	62	39	65	37	94	44	76	51	91	47	56	40	63	33	45	19	
4	39	19	24	10	27	7	63	27	65	35	63	33	82	60	73	53	88	45	60	32	62	28	39	27	
5	40	30	17	5	33	8	64	31	63	42	73	37	90	51	75	46	90	50	66	30	62	29	40	19	
6	34	23	27	2	34	10	61	31	62	43	76	46	95	51	78	49	75	40	66	40	63	36	45	15	
7	41	25	36	10	38	13	61	26	71	38	78	49	90	60	66	47	63	35	67	33	65	36	53	26	
8	43	36	37	13	43	15	63	39	75	40	75	49	68	54	67	42	68	36	74	34	63	33	50	27	
9	40	17	38	20	48	21	56	36	77	49	75	43	65	51	73	43	76	34	75	38	55	29	34	22	
10	35	15	42	20	54	26	63	29	78	47	58	47	50	53	80	52	85	42	76	47	57	29	39	19	
11	43	33	52	17	33	26	54	36	65	39	67	45	87	54	83	50	74	57	68	44	53	24	41	15	
12	35	21	53	28	41	20	49	33	71	37	63	44	78	56	83	57	63	44	69	36	50	20	41	12	
13	32	17	52	23	49	33	50	24	90	40	55	37	80	46	84	49	68	38	72	32	50	16	41	16	
14	45	23	40	30	45	31	56	25	63	45	66	33	83	50	66	55	70	41	71	38	45	23	40	13	
15	50	40	39	28	46	25	50	27	67	34	79	37	91	50	62	48	64	52	66	35	50	30	42	13	
16	50	29	46	33	49	27	43	27	75	41	71	47	96	57	67	42	60	47	68	32	60	34	47	17	
17	35	26	45	29	57	30	51	25	68	46	72	45	81	61	69	45	58	46	55	30	60	29	46	14	
18	41	27	39	28	55	29	50	31	69	37	78	42	74	58	64	45	65	49	51	26	56	32	41	12	
19	37	22	33	27	37	26	55	25	76	37	86	50	83	53	74	41	65	45	55	19	50	26	39	10	
20	36	20	37	17	43	22	61	40	63	30	81	54	65	57	87	45	74	42	56	21	49	21	37	7	
21	37	14	39	13	53	30	51	27	72	33	69	51	84	51	83	57	72	45	66	29	52	21	38	16	
22	29	13	41	22	58	27	52	31	75	45	73	44	89	51	83	57	72	45	66	29	52	21	38	16	
23	34	23	50	27	43	29	57	27	79	43	70	46	94	55	75	53	72	46	54	28	50	22	40	17	
24	34	22	48	29	55	32	67	37	74	40	77	39	78	61	63	47	71	45	60	28	58	21	37	17	
25	37	20	50	39	41	25	41	32	67	41	70	35	85	55	85	50	70	44	44	36	48	26	40	18	
26	47	19	54	42	50	23	42	30	75	38	70	30	93	52	67	39	73	43	52	31	30	15	56	23	
27	55	27	52	30	39	24	51	34	94	50	84	37	84	56	74	38	75	44	54	27	26	2	44	16	
28	47	25	44	26	37	25	54	30	58	37	93	45	87	50	82	43	73	44	58	25	35	10	43	12	
29	43	22	30	24	44	25	60	27	69	31	96	61	83	56	89	47	76	44	54	28	44	20	38	11	
30	50	26			58	21	65	29	66	47	87	52	88	60	66	51	78	42	58	29	44	18	37	10	
31	45	21			60	29			67	41			86	61	90	51			60	30			31	8	
AV.	39	23	41	22	44	22	54	30	71	40	74	43	85	53	77	48	73	45	63	33	52	25	42	16	
MEAN	31.0		31.7		32.9		42.0		55.5		58.4		69.5		62.7		58.9		47.7		38.9		29.0		
STA AV	37	21	45	26	48	26	54	29	67	39	75	47	86	52	84	51	73	43	61	33	48	27	38	23	

NOTES: Temperature data taken from hygrothermograph record at station 076X59. STA AV values are based on 14 yr (1963-76) record period.

1976	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO WATERSHED W-1 (036068)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.02	0.0	0.04	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.18	0.0	0.0
3	0.07	0.0	0.0	0.0	0.05	0.0	0.0	0.07	0.0	0.0	0.0	0.0
4	0.31	0.02	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.04
5	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.09	0.0	0.0	0.05	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
7	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.18	0.0	0.0	0.03	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.02
9	0.17	0.0	0.0	0.0	0.02	0.09	0.0	0.0	0.0	0.0	0.0	0.11
10	0.01	0.0	0.11	0.0	0.11	0.60	0.0	0.0	0.0	0.0	0.0	0.0
11	0.21	0.0	0.06	0.03	0.07	0.18	0.0	0.0	0.62	0.0	0.0	0.0
12	0.03	0.0	0.0	0.03	0.0	0.07	0.03	0.02	0.0	0.0	0.0	0.0
13	0.0	0.07	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.23	0.39	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.05	0.0
15	0.0	0.08	0.02	0.34	0.0	0.04	0.0	0.11	0.61	0.0	0.03	0.0
16	0.0	0.30	0.0	0.0	0.0	0.03	0.0	0.0	0.24	0.0	0.01	0.0
17	0.0	0.05	0.0	0.0	0.0	0.0	0.15	0.14	0.01	0.0	0.0	0.0
18	0.0	0.04	0.13	0.05	0.0	0.0	0.05	0.02	0.0	0.0	0.0	0.0
19	0.0	0.29	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.02	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.02	0.33	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0
23	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
24	0.0	0.0	0.25	0.06	0.0	0.0	0.06	0.0	0.0	0.26	0.0	0.0
25	0.0	0.07	0.04	0.06	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0
26	0.0	0.0	0.08	0.05	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
27	0.0	0.01	0.02	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.24	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.69	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.03	0.0	0.21	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.10	0.0	0.14	0.0	0.0	0.0	0.0	0.0
TOTAL	1.68	2.55	1.63	1.12	0.76	1.23	0.74	0.87	1.46	0.73	0.09	0.18
STA AV	2.84	1.56	2.09	1.60	0.80	1.59	0.48	0.80	0.90	1.67	1.92	2.16

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) at station 116X91. 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (0/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 09 yr (1958-76) record period.

1976	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO WATERSHED W-1 (036068)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.02	0.0	0.04	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.18	0.0	0.0
3	0.04	0.0	0.0	0.0	0.05	0.0	0.0	0.07	0.0	0.0	0.0	0.0
4	0.19	0.02	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.04
5	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.07	0.0	0.0	0.04	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
7	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.13	0.0	0.0	0.03	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.01
9	0.13	0.0	0.0	0.0	0.02	0.09	0.0	0.0	0.0	0.0	0.0	0.03
10	0.01	0.0	0.07	0.0	0.11	0.60	0.0	0.0	0.0	0.0	0.0	0.0
11	0.16	0.0	0.03	0.03	0.07	0.18	0.0	0.0	0.61	0.0	0.0	0.0
12	0.02	0.0	0.0	0.03	0.0	0.07	0.03	0.02	0.0	0.0	0.0	0.0
13	0.0	0.05	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.17	0.25	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.05	0.0
15	0.0	0.06	0.01	0.21	0.0	0.03	0.0	0.11	0.58	0.0	0.03	0.0
16	0.0	0.22	0.0	0.0	0.0	0.02	0.0	0.0	0.23	0.0	0.01	0.0
17	0.0	0.03	0.0	0.0	0.0	0.0	0.13	0.13	0.01	0.0	0.0	0.0
18	0.0	0.02	0.09	0.03	0.0	0.0	0.03	0.02	0.0	0.0	0.0	0.0
19	0.0	0.16	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.02	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.01	0.26	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0
23	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
24	0.0	0.0	0.16	0.05	0.0	0.0	0.05	0.0	0.0	0.21	0.0	0.0
25	0.0	0.07	0.02	0.05	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0
26	0.0	0.0	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
27	0.0	0.01	0.01	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.58	0.15	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.37	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.03	0.0	0.17	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.09	0.0	0.12	0.0	0.0	0.0	0.0	0.0
TOTAL	1.17	1.76	1.01	0.87	0.71	1.19	0.58	0.66	1.43	0.64	0.09	0.14
STA AV												

NOTES: Values are amounts from unshielded recording gage 116491. STA AV values do not apply to unshielded rain gage records.

1976 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.02	0.0	0.04	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.18	0.0	0.0
3	0.05	0.0	0.0	0.0	0.05	0.0	0.0	0.07	0.0	0.0	0.0	0.0
4	0.23	0.02	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.04
5	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.09	0.0	0.0	0.04	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
7	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.14	0.0	0.0	0.03	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.01
9	0.15	0.0	0.0	0.0	0.02	0.09	0.0	0.0	0.0	0.0	0.0	0.10
10	0.01	0.0	0.08	0.0	0.11	0.60	0.0	0.0	0.0	0.0	0.0	0.0
11	0.19	0.0	0.03	0.03	0.07	0.18	0.0	0.0	0.61	0.0	0.0	0.0
12	0.02	0.0	0.0	0.03	0.0	0.07	0.03	0.02	0.0	0.0	0.0	0.0
13	0.0	0.05	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.20	0.32	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.05	0.0
15	0.0	0.07	0.01	0.27	0.0	0.04	0.0	0.11	0.59	0.0	0.03	0.0
16	0.0	0.25	0.0	0.0	0.0	0.02	0.0	0.0	0.24	0.0	0.01	0.0
17	0.0	0.04	0.0	0.0	0.0	0.0	0.12	0.13	0.01	0.0	0.0	0.0
18	0.0	0.03	0.11	0.04	0.0	0.0	0.03	0.02	0.0	0.0	0.0	0.0
19	0.0	0.21	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.02	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.01	0.39	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0
23	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
24	0.0	0.0	0.20	0.05	0.0	0.0	0.05	0.0	0.0	0.24	0.0	0.0
25	0.0	0.07	0.02	0.05	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0
26	0.0	0.0	0.06	0.05	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
27	0.0	0.01	0.01	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.63	0.17	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.53	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.03	0.0	0.19	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.09	0.0	0.14	0.0	0.0	0.0	0.0	0.0
TOTAL	1.39	2.11	1.23	0.98	0.72	1.21	0.65	0.86	1.45	0.69	0.09	0.16
STA AV												

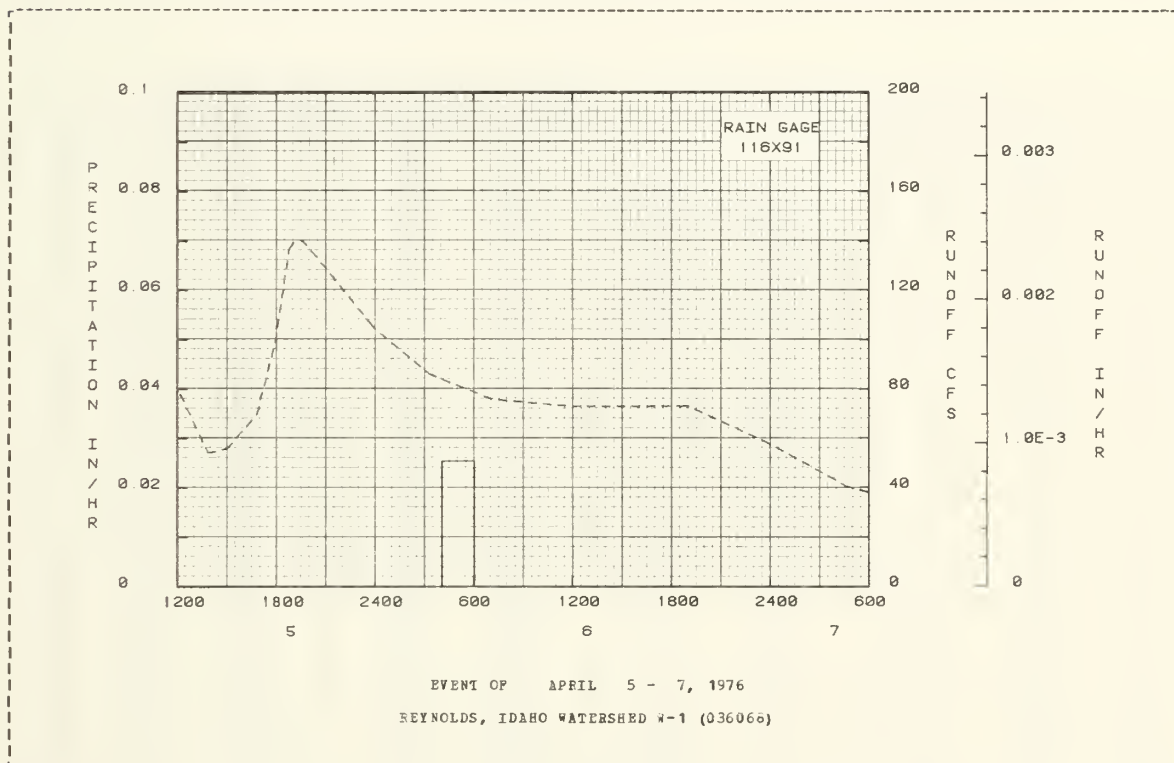
NOTES: Values are amounts from shielded recording gage 116591. STA AV values do not apply to shielded rain gage records.

1976 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	7.082	12.372	18.867	58.641	48.263	29.998	4.537	2.197	1.636	1.864	2.598	2.044
2	5.777	13.726	5.076	45.699	65.213	26.981	5.322	3.576	1.784	2.051	2.530	2.003
3	10.966	14.833	6.551	33.126	66.641	25.207	5.197	3.338	1.343	2.153	2.563	2.570
4	16.575	6.174	6.766	71.486	66.106	23.020	4.666	2.743	1.499	2.106	2.541	2.462
5	35.145	3.631	6.694	86.541	68.943	22.206	4.696	2.385	1.312	2.059	2.617	2.021
6	15.757	5.663	7.905	75.911	72.137	21.069	3.394	2.323	1.330	2.024	2.578	2.266
7	15.496	5.920	10.018	70.928	74.420	20.327	2.453	2.239	1.394	2.051	2.594	2.993
8	50.239	15.638	16.032	96.063	77.640	19.274	3.116	2.269	1.226	2.020	2.584	2.947
9	22.064	18.017	13.872	87.237	81.673	19.279	3.564	2.227	1.226	1.963	2.584	2.875
10	15.127	12.527	19.171	84.412	85.745	21.137	3.637	2.071	1.226	1.959	2.648	2.375
11	15.025	10.349	17.203	65.629	89.118	32.098	3.897	1.839	4.307	1.992	2.584	2.389
12	13.676	11.011	16.446	57.697	92.059	22.139	4.270	1.702	2.148	2.063	2.479	2.194
13	12.917	11.152	18.367	53.430	99.087	23.145	4.470	1.931	1.874	2.094	2.421	3.015
14	14.244	12.776	21.603	48.796	98.809	21.660	4.297	2.596	1.874	2.078	2.936	2.665
15	30.002	10.878	20.888	44.567	89.788	20.819	3.832	2.750	1.921	2.090	2.769	2.691
16	34.898	13.894	23.090	40.524	84.839	20.951	3.209	2.695	2.719	2.174	2.985	2.877
17	27.171	11.980	35.355	36.088	80.034	19.865	2.872	2.647	2.601	2.157	3.038	2.793
18	22.914	10.524	42.922	32.950	75.594	18.342	3.104	2.771	2.513	2.186	2.939	2.631
19	18.801	10.298	22.844	30.373	69.042	15.727	2.393	2.533	2.458	2.190	2.939	2.476
20	16.819	9.901	23.423	33.572	67.230	13.284	2.813	2.273	2.274	2.259	2.914	2.414
21	14.936	6.932	23.794	31.605	61.727	11.410	2.848	2.158	2.220	2.297	2.860	2.334
22	15.191	9.031	27.197	32.768	49.083	10.915	2.165	2.461	2.253	2.314	2.932	2.639
23	16.987	10.708	26.743	28.858	47.242	9.585	1.935	2.486	2.022	2.334	2.811	2.760
24	15.019	10.622	31.253	34.291	46.676	9.396	2.022	2.235	2.100	2.315	2.758	2.594
25	15.308	11.300	26.060	40.702	38.424	9.273	2.064	1.994	2.093	3.154	2.759	2.939
26	16.599	19.269	24.139	40.006	33.296	8.239	2.077	1.978	2.090	3.055	2.313	2.893
27	14.575	22.741	24.101	39.465	33.577	6.722	1.637	1.939	2.079	2.715	2.156	2.759
28	12.595	50.205	22.404	39.308	35.262	5.929	2.117	1.974	1.974	2.671	2.477	2.671
29	12.391	27.581	27.495	38.545	31.014	5.673	2.045	1.978	1.872	2.715	3.043	2.671
30	12.290		37.920	39.226	28.754	4.543	1.528	1.740	1.860	2.767	2.754	2.671
31	12.257		54.055		32.237		2.264	1.721		2.822		2.671
MEAN	17.996	13.581	21.943	51.285	64.183	17.274	3.198	2.315	1.974	2.282	2.690	2.592
INCHES	0.230	0.162	0.281	0.635	0.821	0.214	0.041	0.030	0.024	0.029	0.033	0.033
STA AV	0.458	0.281	0.508	0.614	0.664	0.337	0.053	0.023	0.016	0.030	0.053	0.196

NOTES: To convert CPS to IN/DAY, multiply by 0.000413. STA AV values are based on 14 yr (1963-76) record period.

1976 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO WATERSHED W-1 (036068)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 5 - 7, 1976										
RG 116X91			RG 116X91							
4- 6	0.0		4- 6	405	0.0	0.0	4- 5	1352	54.227	0.0
4- 5		0.048		603	0.0254	0.05		1502	56.122	0.0011
								1650	70.043	0.0031
								1756	99.400	0.0047
								1848	136.963	0.0064
WATERSHED CONDITIONS: The event is snowmelt runoff without rain.								1904	139.586	0.0070
								1932	140.468	0.0081
								2029	133.517	0.0103
								2400	104.378	0.0176
						4- 6	318	86.065	0.0230	
								706	75.721	0.0282
								1202	72.845	0.0345
								1902	72.845	0.0433
								2400	57.571	0.0489
						4- 7	436	40.504	0.0528	
							548	38.202	0.0536	
							708	37.626	0.0544	

NOTES: To convert CFS to IN/HR, multiply by 0.00001719.



REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; east flowing tributary to Reynolds Creek, Snake River Basin.
Lat. 43 deg. 15 min. 21 sec. N.; Long. 116 deg. 45 min. 10 sec. W.

AREA: 8990.00 acres 14.05 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	1.56	2.70	1.33	1.42	0.70	2.26	1.50	1.11	1.77	0.56	0.33	0.39	15.63					
	Q	0.347	0.211	0.405	0.560	0.209	0.099	0.015	0.013	0.030	0.052	0.058	0.048	2.048					
STA AV	P	2.97	1.51	2.28	2.02	0.99	2.05	0.47	0.74	1.15	1.89	2.20	2.30	20.66					
	Q	0.690	0.359	0.611	0.521	0.314	0.129	0.026	0.028	0.020	0.053	0.089	0.171	3.010					
ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		4- 8	0.002	4- 8	0.002	4- 8	0.004	4- 8	0.011	4- 8	0.022	4- 8	0.040	4- 7	0.072	4- 5	0.225		
MAXIMUMS FOR PERIOD OF RECORD																			
		8-23	0.073	8-23	0.044	8-23	0.056	1-20	0.115	1-28	0.208	1-28	0.379	1-28	0.766	1-28	1.495		
		1965		1965		1965		1969		1965		1965		1965		1965			

NOTES: Watershed conditions: Predominantly sagebrush rangeland, 99%; irrigated pasture and hay crops, 1%. For map of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 68.2-7. Records began 1963. Precipitation: 'Computed Actual' amounts from rain gage 023X01. STA AV precipitation values are computed from 9 Thiessen weighted gages for record period (1968-75) and one gage for 1976. STA AV runoff values are based on record period (1966-76). For long-time precipitation, see National Weather Service records at Boise, Idaho; 50 miles N.E. of watershed.

1976 DAILY PRECIPITATION (inches)														REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.0	0.11	0.0	0.0	0.02	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.11	0.07	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
4	0.22	0.03	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
5	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
6	0.04	0.0	0.0	0.03	0.07	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
7	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	0.11	0.0	0.0	0.20	0.04	0.46	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
9	0.13	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.15	0.0	0.01	0.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.32	0.0	0.0	0.0	0.0	0.34	0.0	0.0	1.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
12	0.05	0.0	0.0	0.02	0.0	0.36	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
13	0.0	0.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.08	0.13	0.20	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.07	0.01	0.26	0.0	0.0	0.0	0.04	0.46	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
16	0.0	0.19	0.0	0.0	0.0	0.11	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.01	0.0	0.0	0.0	0.0	0.22	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
18	0.0	0.02	0.0	0.18	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.0	0.77	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.0	0.0	0.03	0.03	0.0	0.02	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.03	0.24	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	0.08	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.14	0.06	0.01	0.0	0.05	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
25	0.0	0.07	0.0	0.14	0.0	0.0	0.0	0.04	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.11	0.22	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
27	0.0	0.0	0.03	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
28	0.0	0.62	0.41	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
29	0.0	0.63	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
30	0.0	0.0	0.0	0.0	0.11	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.11	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL	1.56	2.70	1.33	1.42	0.70	2.26	1.50	1.11	1.77	0.56	0.33	0.39															
STA AV	2.97	1.61	2.28	2.02	0.99	2.05	0.47	0.74	1.15	1.89	2.20	2.30															

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings WHO-IDHS Symposium, Gello, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 9 yr (1968-76) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

1976 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.06	0.0	0.0	0.02	0.0	0.08	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.04	0.0	0.0
3	0.05	0.03	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0
4	0.10	0.31	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.02
5	0.11	0.3	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
6	0.02	0.0	0.0	0.03	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0
7	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.05	0.0	0.0	0.17	0.01	0.44	0.0	0.0	0.0	0.0	0.0	0.05
9	0.05	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
10	0.0	0.0	0.08	0.0	0.01	0.59	0.0	0.0	0.0	0.0	0.0	0.0
11	0.12	0.0	0.0	0.0	0.0	0.26	0.0	0.0	1.03	0.0	0.0	0.0
12	0.02	0.0	0.0	0.02	0.0	0.22	0.0	0.06	0.0	0.0	0.0	0.0
13	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.03	0.07	0.10	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.13	0.0
15	0.0	0.03	0.01	0.18	0.0	0.0	0.0	0.03	0.45	0.0	0.14	0.0
16	0.0	0.09	0.0	0.0	0.0	0.07	0.0	0.0	0.23	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.03	0.0	0.0	0.0	0.0
18	0.0	0.31	0.0	0.12	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0
19	0.0	0.29	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.01	0.03	0.0	0.02	0.45	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.01	0.18	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0
23	0.0	0.0	0.04	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.02
24	0.0	0.0	0.07	0.03	0.01	0.0	0.05	0.0	0.0	0.19	0.0	0.0
25	0.0	0.34	0.0	0.09	0.0	0.0	0.0	0.03	0.0	0.20	0.0	0.0
26	0.0	0.0	0.05	0.13	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
27	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.35	0.20	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.36	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.10	0.0	0.19	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.10	0.0	0.46	0.0	0.0	0.0	0.0	0.0
TOTAL	0.68	1.32	0.65	0.99	0.60	1.81	1.49	1.05	1.73	0.44	0.27	0.15
STA AV												

NOTES: Values are amounts from unshielded recording gage 023401. STA AV values do not apply to unshielded rain gage records.

1976 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.03	0.0	0.0	0.02	0.0	0.08	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.04	0.0	0.0
3	0.08	0.05	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0
4	0.16	0.32	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.04
5	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
6	0.03	0.0	0.0	0.03	0.04	0.0	0.0	0.02	0.0	0.0	0.0	0.0
7	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.05	0.0	0.0	0.19	0.02	0.45	0.0	0.0	0.0	0.0	0.0	0.10
9	0.09	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10
10	0.0	0.3	0.11	0.0	0.01	0.67	0.0	0.0	0.0	0.0	0.0	0.0
11	0.22	0.0	0.0	0.0	0.0	0.30	0.0	0.0	1.05	0.0	0.0	0.0
12	0.04	0.0	0.0	0.02	0.0	0.29	0.0	0.07	0.0	0.0	0.0	0.0
13	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.05	0.39	0.15	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.14	0.0
15	0.0	0.05	0.01	0.22	0.0	0.0	0.0	0.03	0.45	0.0	0.16	0.0
16	0.0	0.14	0.0	0.0	0.0	0.09	0.0	0.0	0.23	0.0	0.0	0.0
17	0.0	0.31	0.0	0.0	0.0	0.0	0.22	0.03	0.0	0.0	0.0	0.0
18	0.0	0.01	0.0	0.15	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0
19	0.0	0.52	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.02	0.03	0.0	0.02	0.45	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.02	0.21	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0
23	0.0	0.0	0.06	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.02
24	0.0	0.3	0.10	0.04	0.01	0.0	0.05	0.0	0.0	0.22	0.0	0.0
25	0.0	0.05	0.0	0.12	0.0	0.0	0.0	0.03	0.0	0.23	0.0	0.0
26	0.0	0.0	0.08	0.17	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
27	0.0	0.0	0.02	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.47	0.29	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.48	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.10	0.0	0.19	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.11	0.0	0.46	0.0	0.0	0.0	0.0	0.0
TOTAL	1.13	1.36	0.96	1.20	0.64	2.03	1.50	1.07	1.75	0.50	0.30	0.26
STA AV												

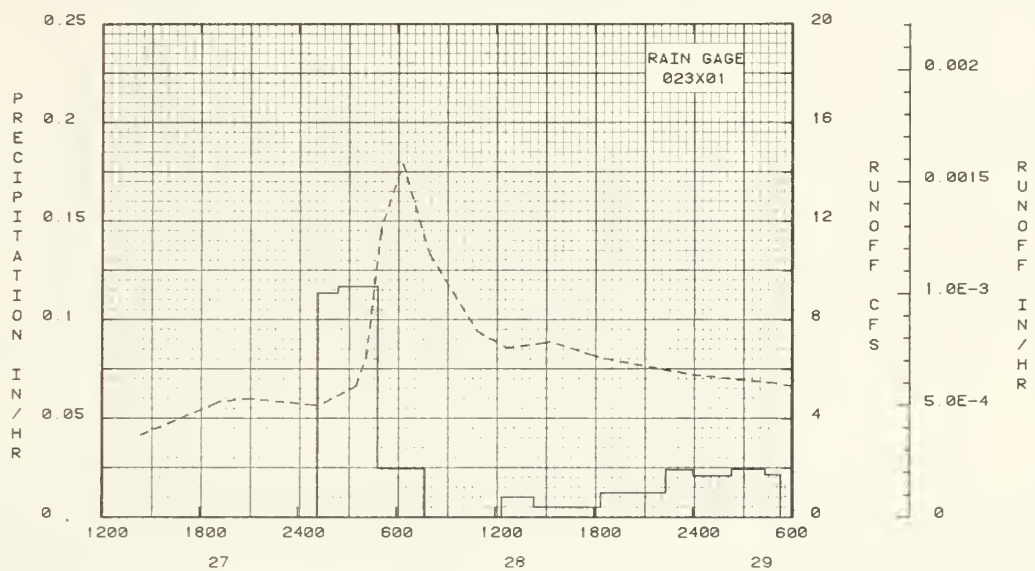
NOTES: Values are amounts from shielded recording gage 023501. STA AV values do not apply to shielded rain gage records.

1976 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.922	2.805	4.537	5.264	3.826	1.610	0.649	0.116	0.165	0.528	0.749	0.682
2	1.637	2.894	3.500	4.938	3.379	1.511	0.584	0.172	0.164	0.614	0.749	0.692
3	1.612	3.127	4.365	5.284	3.901	1.476	0.398	0.113	0.100	0.655	0.769	0.705
4	1.612	1.931	3.811	6.489	4.121	1.384	0.281	0.034	0.098	0.621	0.730	0.674
5	4.140	1.579	3.983	7.805	4.087	1.209	0.275	0.067	0.094	0.630	0.769	0.691
6	2.850	2.695	3.889	8.889	4.023	0.950	0.248	0.083	0.098	0.599	0.745	0.719
7	2.740	2.664	4.467	9.994	3.887	0.816	0.227	0.102	0.105	0.592	0.749	0.749
8	9.375	2.664	4.268	13.516	3.533	0.848	0.288	0.130	0.102	0.597	0.769	0.769
9	5.850	2.633	5.214	13.925	3.470	0.942	0.299	0.164	0.110	0.563	0.730	0.713
10	4.274	2.602	6.141	10.673	2.970	1.374	0.201	0.171	0.127	0.516	0.769	0.578
11	3.900	2.571	4.880	10.402	3.081	2.386	0.170	0.171	0.431	0.529	0.749	0.622
12	3.316	2.509	5.075	9.681	2.882	1.919	0.151	0.171	0.155	0.567	0.744	0.594
13	2.892	2.345	4.561	8.856	2.714	1.856	0.153	0.171	0.172	0.574	0.631	0.753
14	3.494	2.477	5.171	7.933	2.608	1.648	0.143	0.171	0.181	0.556	0.821	0.737
15	7.921	2.332	4.540	7.806	2.720	1.465	0.112	0.171	0.267	0.570	0.728	0.741
16	9.731	2.721	4.753	6.474	2.543	1.433	0.097	0.171	0.463	0.552	0.802	0.820
17	8.541	2.418	5.784	6.088	2.255	1.528	0.148	0.171	0.420	0.527	0.693	0.687
18	7.217	2.296	6.881	6.275	2.084	1.452	0.299	0.171	0.580	0.560	0.742	0.475
19	6.089	2.021	6.156	5.437	1.960	1.315	0.212	0.171	0.714	0.580	0.818	0.414
20	5.222	1.313	5.523	5.445	1.967	1.326	0.097	0.171	0.665	0.608	0.804	0.468
21	4.442	1.788	5.307	4.904	1.912	1.331	0.091	0.171	0.708	0.609	0.790	0.500
22	4.045	2.184	5.304	5.048	1.501	1.287	0.057	0.171	0.668	0.611	0.838	0.516
23	4.203	2.317	5.270	5.034	1.231	1.001	0.050	0.171	0.662	0.593	0.895	0.516
24	3.582	2.219	5.472	5.158	1.256	0.929	0.047	0.171	0.625	0.627	0.888	0.500
25	3.189	2.435	5.108	5.346	1.410	0.900	0.065	0.144	0.602	0.966	0.847	0.468
26	3.342	3.389	4.939	5.462	1.428	0.911	0.065	0.170	0.577	0.869	0.479	0.407
27	3.192	3.943	4.891	5.348	1.363	0.835	0.047	0.176	0.552	0.788	0.346	0.335
28	3.052	7.454	4.754	4.992	1.757	0.751	0.045	0.205	0.539	0.788	0.429	0.321
29	2.991	5.491	4.367	4.650	1.738	0.590	0.016	0.238	0.538	0.788	0.586	0.363
30	2.930		4.713	4.440	1.763	0.569	0.021	0.175	0.517	0.788	0.649	0.438
31	2.855		5.157		1.752		0.226	0.165		0.788		0.517
MEAN	4.2308	2.7523	4.9284	7.0518	2.5522	1.2518	0.1859	0.1554	0.3734	0.6371	0.7269	0.5860
INCHES	0.347	0.211	0.405	0.560	0.209	0.099	0.015	0.013	0.030	0.052	0.058	0.048
STA AV	0.690	0.359	0.611	0.521	0.314	0.129	0.026	0.028	0.020	0.053	0.089	0.171

NOTES: To convert CFS to IN/DAY, multiply by 0.002648. STA AV values are based on 12 yr (1965-76) record period.

1976 SELECTED RUNOFF EVENT REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF FEBRUARY 27 - 29, 1976											
RG 023X01											
2-28	0.0		2-28	112	0.0	0.0	2-27	1424	3.343	0.0	
2-27		0.006		226	0.1135	0.14		1916	4.702	0.0022	
				450	0.1167	0.42		2050	4.800	0.0030	
				742	0.0244	0.49		2400	4.605	0.0046	
				1224	0.0	0.49	2-28	110	4.511	0.0052	
WATERSHED CONDITIONS:				1421	0.0103	0.51		330	5.314	0.0065	
The event is snowmelt				1823	0.0050	0.53		408	6.467	0.0069	
runoff combined with rain.				2221	0.0126	0.58		502	11.754	0.0078	
				2400	0.0242	0.62		620	14.342	0.0096	
			2-29	222	0.0211	0.67		758	10.639	0.0119	
				424	0.0246	0.72		1054	7.512	0.0148	
				520	0.0214	0.74		1240	6.846	0.0162	
								1518	7.108	0.0183	
								1814	6.467	0.0205	
								2400	5.755	0.0244	
							2-29	506	5.421	0.0275	

NOTES: To convert CFS to IN/HR, multiply by .0001103.



EVENT OF FEBRUARY 27 - 29, 1976
 REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)

REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; east flowing tributary to Reynolds Creek, Snake River Basin.
Lat. 43 deg. 14 min. 42 sec. N.; Long. 116 deg. 45 min. 30 sec. W.

AREA: 7846.00 acres 12.26 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P 1.55	2.66	1.11	1.45	0.60	1.54	0.84	1.81	1.64	0.97	0.45	0.21	14.83	
	Q 0.346	0.249	0.513	0.740	0.177	0.092	0.026	0.024	0.023	0.039	0.050	0.043	2.320	
STA AV	P 2.60	1.42	1.94	1.73	0.77	1.72	0.49	0.82	1.04	1.68	1.90	2.07	18.16	
	Q 0.572	0.292	0.733	0.564	0.223	0.072	0.016	0.006	0.005	0.017	0.035	0.115	2.650	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days	
	Date	Rate	Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	1 Day	Date	Vol.	Date	Vol.
1976	2-28	0.004	2-28	0.004	2-28	0.008	2-28	0.019	4- 8	0.033	4- 8	0.061	4- 7	0.113
													4- 5	0.362
MAXIMUMS FOR PERIOD OF RECORD														
	1-21	0.039	1-21	0.037	1-20	0.069	1-20	0.183	1-20	0.294	1-20	0.457	1-20	0.649
	1969		1969		1969		1969		1969		1969		1969	2-27 1.015
														1972

NOTES: Watershed conditions: The watershed topography is steep, except in the lower valley, with numerous basalt outcrops at the higher elevations. 98% is sagebrush rangeland with a varying cover of sagebrush, bitterbrush, mountain mahogany and willow with a fair cover of forage plants such as cheatgrass, bluebunch wheatgrass, and Idaho fescue. 35% of area has a vegetative cover of 0-25%, 33% of the area has a vegetative cover of 26-50%, 18% of area has a vegetative cover of 51-75%, and 12% of the area has a vegetative cover of 76-100%. 2% of area is in pasture and haycrops which receives limited irrigation. For map of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 68.3-4. Records began 1963. Precipitation: 'Computed Actual' amounts from rain gage 053X93. Station average precipitation values are computed from 12 Thiessen weighted gages for record period 1968-75 and one gage for 1976. Station average streamflow values are based on 1963-76 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles N.E. of watershed.

1976 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.49	0.0	0.12	0.0	0.0		
3	0.15	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.0	0.0	0.0	0.0		
4	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0		
5	0.26	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.05	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.21	0.0	0.0	0.28	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.08	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.02	0.0	0.07	0.0	0.04	0.64	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.19	0.0	0.0	0.06	0.01	0.20	0.0	0.0	0.91	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.06	0.0	0.17	0.02	0.09	0.0	0.0	0.0	0.0		
13	0.0	0.15	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.31	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0		
15	0.0	0.08	0.0	0.24	0.0	0.01	0.0	0.0	0.47	0.0	0.18	0.0		
16	0.0	0.43	0.0	0.0	0.0	0.03	0.01	0.0	0.25	0.0	0.01	0.0		
17	0.0	0.31	0.0	0.0	0.0	0.0	0.16	0.06	0.01	0.0	0.0	0.0		
18	0.0	0.05	0.07	0.10	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.03	0.06	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.03	0.33	0.0	0.0	0.02	0.08	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.08	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.03		
24	0.0	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.41	0.0	0.0		
25	0.0	0.14	0.0	0.06	0.0	0.01	0.0	0.0	0.0	0.42	0.0	0.0		
26	0.0	0.0	0.13	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.04	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.51	0.22	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.54	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.0		0.0	0.0	0.03	0.0	0.25	0.0	0.0	0.0	0.0	0.0		
31	0.0		0.0		0.11		0.09	0.0		0.02				
TOTAL	1.55	2.66	1.11	1.45	0.60	1.54	0.84	1.81	1.64	0.97	0.45	0.21		
STA AV	2.60	1.42	1.94	1.73	0.77	1.72	0.49	0.82	1.04	1.68	1.90	2.07		

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WHO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 9 yr (1968-76) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

1976	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.49	0.0	0.10	0.0	0.0
3	0.06	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.0	0.0	0.0	0.0
4	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.01
5	0.10	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.02	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.08	0.0	0.0	0.14	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.02
9	0.03	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.03
10	0.01	0.0	0.03	0.0	0.04	0.60	0.0	0.0	0.0	0.0	0.0	0.0
11	0.07	0.0	0.0	0.03	0.01	0.19	0.0	0.0	0.91	0.0	0.0	0.0
12	0.0	0.0	0.0	0.03	0.0	0.17	0.02	0.09	0.0	0.0	0.0	0.0
13	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.11	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0
15	0.0	0.33	0.0	0.14	0.0	0.01	0.0	0.0	0.47	0.0	0.09	0.0
16	0.0	0.17	0.0	0.0	0.0	0.03	0.01	0.0	0.25	0.0	0.01	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.06	0.01	0.0	0.0	0.0
18	0.0	0.02	0.03	0.06	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
19	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.01	0.04	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.01	0.21	0.0	0.0	0.02	0.08	0.0	0.0	0.0	0.0
23	0.0	0.0	0.03	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.03
24	0.0	0.0	0.06	0.0	0.0	0.0	0.05	0.0	0.0	0.22	0.0	0.0
25	0.0	0.05	0.0	0.04	0.0	0.01	0.0	0.0	0.0	0.22	0.0	0.0
26	0.0	0.0	0.05	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.02	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.33	0.09	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.43	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.02	0.0	0.23	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.08	0.0	0.09	0.0	0.0	0.01	0.0	0.0
TOTAL	0.59	1.29	0.47	0.85	0.55	1.48	0.82	1.81	1.64	0.55	0.32	0.09
STA AV												

NOTES: Values are amounts from unshielded recording gage 053493. STA AV values do not apply to unshielded rain gage records.

1976	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.49	0.0	0.10	0.0	0.0
3	0.10	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.0	0.0	0.0	0.0
4	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.02
5	0.17	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.03	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.13	0.0	0.0	0.21	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.04
9	0.05	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.05
10	0.01	0.0	0.05	0.0	0.04	0.62	0.0	0.0	0.0	0.0	0.0	0.0
11	0.12	0.0	0.0	0.04	0.01	0.20	0.0	0.0	0.91	0.0	0.0	0.0
12	0.0	0.0	0.0	0.04	0.0	0.17	0.02	0.09	0.0	0.0	0.0	0.0
13	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.20	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0
15	0.0	0.05	0.0	0.19	0.0	0.01	0.0	0.0	0.47	0.0	0.12	0.0
16	0.0	0.31	0.0	0.0	0.0	0.03	0.01	0.0	0.25	0.0	0.01	0.0
17	0.0	0.01	0.0	0.0	0.0	0.0	0.16	0.06	0.01	0.0	0.0	0.0
18	0.0	0.03	0.05	0.08	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
19	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.02	0.05	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.02	0.27	0.0	0.0	0.02	0.08	0.0	0.0	0.0	0.0
23	0.0	0.0	0.05	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.03
24	0.0	0.0	0.09	0.0	0.0	0.0	0.05	0.0	0.0	0.31	0.0	0.0
25	0.0	0.09	0.0	0.05	0.0	0.01	0.0	0.0	0.0	0.30	0.0	0.0
26	0.0	0.0	0.08	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.02	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.40	0.15	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.52	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.02	0.0	0.23	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.09	0.0	0.09	0.0	0.0	0.01	0.0	0.0
TOTAL	0.59	1.39	0.74	1.14	0.56	1.52	0.82	1.81	1.64	0.72	0.36	0.14
STA AV												

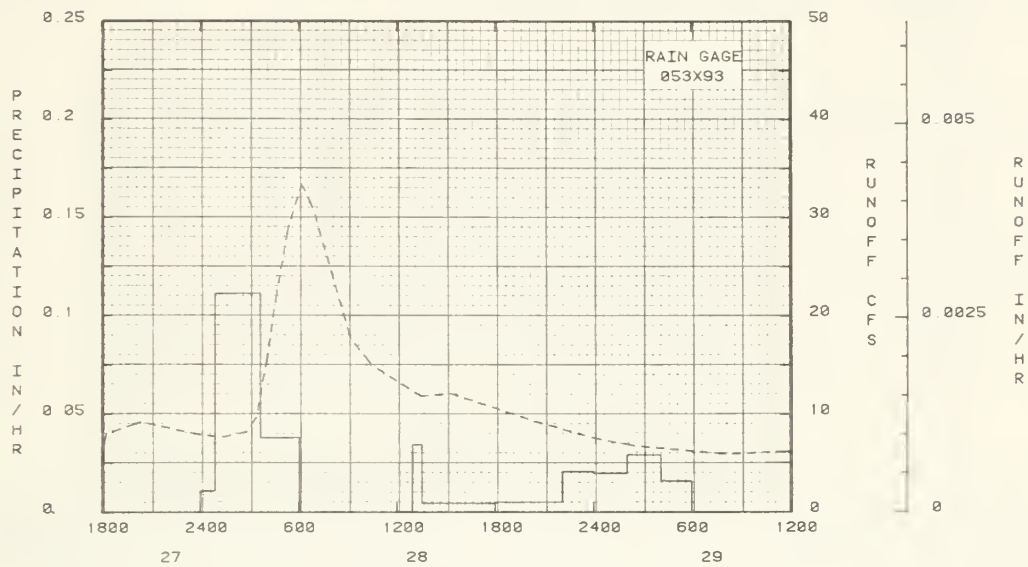
NOTES: Values are amounts from shielded recording gage 053593. STA AV values do not apply to shielded rain gage records.

1976 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.144	2.106	4.291	7.019	3.408	0.850	0.442	0.260	0.115	0.244	0.528	0.452
2	1.716	2.293	3.237	6.165	3.540	0.937	0.482	1.039	0.105	0.295	0.528	0.441
3	1.819	2.410	3.685	7.326	3.486	0.928	0.388	0.573	0.114	0.331	0.528	0.487
4	2.161	1.614	3.384	9.539	3.654	0.987	0.374	0.360	0.111	0.317	0.542	0.500
5	6.925	1.413	3.255	11.860	3.597	0.886	0.384	0.380	0.103	0.315	0.557	0.457
6	2.377	1.766	3.255	13.597	3.276	0.865	0.386	0.355	0.104	0.313	0.557	0.460
7	2.612	2.055	3.225	14.574	3.111	1.092	0.346	0.331	0.129	0.314	0.557	0.537
8	12.783	2.028	3.350	18.627	3.011	1.235	0.319	0.307	0.135	0.324	0.557	0.552
9	5.321	2.017	3.795	18.328	2.806	1.227	0.315	0.235	0.135	0.324	0.571	0.541
10	2.946	1.781	7.030	15.300	2.592	1.402	0.314	0.218	0.137	0.309	0.586	0.443
11	2.745	1.612	5.262	13.962	2.565	2.381	0.315	0.201	0.301	0.317	0.579	0.516
12	2.343	2.066	4.165	12.973	2.031	1.519	0.304	0.189	0.243	0.341	0.527	0.467
13	2.193	2.018	3.995	11.329	1.842	1.413	0.276	0.169	0.296	0.371	0.465	0.540
14	2.540	2.273	5.338	8.403	1.704	1.213	0.261	0.184	0.269	0.367	0.656	0.521
15	8.497	1.949	5.038	8.459	1.634	1.173	0.250	0.210	0.349	0.368	0.619	0.537
16	9.870	2.875	5.968	6.421	1.485	1.172	0.248	0.210	0.590	0.375	0.645	0.572
17	6.610	2.377	9.669	5.942	1.391	1.082	0.292	0.211	0.456	0.373	0.615	0.514
18	5.214	2.042	11.007	5.871	1.333	0.990	0.288	0.225	0.368	0.406	0.615	0.423
19	3.901	1.879	7.272	4.873	1.247	0.913	0.254	0.218	0.350	0.399	0.615	0.386
20	3.292	1.657	5.789	4.697	1.093	0.878	0.251	0.191	0.311	0.413	0.590	0.360
21	2.718	1.833	5.706	3.371	0.913	0.930	0.247	0.189	0.315	0.443	0.578	0.260
22	2.559	1.910	6.318	4.515	0.900	0.862	0.219	0.218	0.300	0.449	0.600	0.296
23	3.179	1.925	6.049	3.854	0.845	0.790	0.206	0.188	0.288	0.459	0.589	0.348
24	2.453	1.932	7.643	3.661	0.803	0.788	0.195	0.199	0.284	0.461	0.627	0.459
25	2.150	2.319	6.036	3.516	0.774	0.746	0.186	0.170	0.284	0.481	0.615	0.486
26	2.571	5.456	5.593	4.266	0.815	0.803	0.176	0.119	0.289	0.693	0.420	0.486
27	2.404	6.001	5.537	4.031	0.806	0.718	0.137	0.125	0.287	0.571	0.332	0.491
28	2.299	14.011	5.164	3.802	0.850	0.495	0.093	0.116	0.279	0.554	0.308	0.428
29	2.228	6.154	4.911	3.637	0.896	0.474	0.093	0.115	0.248	0.564	0.380	0.401
30	2.228		6.230	3.635	0.916	0.415	0.105	0.121	0.230	0.542	0.452	0.349
31	2.164		7.996		0.994		0.341	0.126		0.557		0.301
MEAN	3.6825	2.8325	5.4577	8.1258	1.8813	1.0067	0.2738	0.2500	0.2507	0.4159	0.5447	0.4521
INCHES	0.346	0.249	0.513	0.740	0.177	0.092	0.026	0.024	0.023	0.039	0.050	0.043
STA AV	0.572	0.292	0.733	0.564	0.223	0.072	0.016	0.006	0.005	0.017	0.035	0.115

NOTES: To convert CFS to IN/DAY, multiply by 0.003034. STA AV values are based on 14 yr (1963-76) record period.

1976			SELECTED RUNOFF EVENT			REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)					
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF FEBRUARY 27 - 29, 1976											
RG 053X93			RG 053X93								
2-27	0.0	0.009	2-27	2353	0.0	0.0	2-27	1406	3.818	0.0	
				2400	0.0	0.0		1448	4.005	0.0004	
			2-28	54	0.0111	0.01		1604	5.269	0.0011	
				341	0.1114	0.32		1818	8.044	0.0030	
				603	0.0380	0.41		2022	9.234	0.0052	
WATERSHED CONDITIONS:											
The event is combined rain				1256	0.0	0.41		2400	7.864	0.0092	
and snowmelt.				1331	0.0343	0.43	2-28	124	7.687	0.0105	
				1802	0.0044	0.45		250	8.231	0.0120	
				2204	0.0050	0.47		326	9.670	0.0127	
				2400	0.0207	0.51		406	16.186	0.0138	
			2-29	202	0.0197	0.55		442	22.618	0.0152	
				406	0.0290	0.61		524	29.202	0.0175	
				600	0.0158	0.64		612	33.413	0.0206	
								652	31.027	0.0234	
								910	17.741	0.0305	
								1026	15.009	0.0331	
								1326	11.825	0.0382	
								1516	12.075	0.0409	
								2026	9.234	0.0479	
								2400	7.515	0.0517	
							2-29	230	6.720	0.0539	
								802	5.886	0.0583	

NOTES: To convert CFS to IN/HR, multiply by .00012640.



REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)

LOCATION: Owyhee County, Idaho; 40 miles south of Nampa; main stem of Reynolds Creek which is tributary to the Snake River. Lat. 42 deg. 8 min. 33 sec. N.; Long. 115 deg. 45 min. 42 sec. W.

AREA: 13453.00 acres 21.02 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1976	P	3.65	3.31	2.49	2.11	0.63	1.44	0.70	1.53	1.49	1.13	0.22	0.24	19.44													
	Q	0.287	0.274	0.552	2.687	4.083	0.970	0.177	0.083	0.064	0.087	0.089	0.074	9.427													
STA AV	P	4.89	2.81	3.25	2.24	1.15	1.81	0.68	1.11	1.10	2.36	3.17	3.71	28.28													
	Q	0.753	0.495	1.194	1.912	3.701	1.760	0.311	0.061	0.042	0.096	0.156	0.245	10.727													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1976		5-10	0.010	5-10	0.010	5-10	0.019	5-10	0.056	5-10	0.107	5-10	0.201	5- 9	0.382	5- 7	1.409										
MAXIMUMS FOR PERIOD OF RECORD																											
		1-21	0.030	1-21	0.029	1-21	0.057	1-21	0.157	1-21	0.283	1-20	0.454	1-20	0.612	5-12	1.970										
		1969		1969		1969		1969		1969		1969		1969		1975											

NOTES: Watershed conditions - Watershed is generally sagebrush rangeland except for scattered stands of Douglas fir and aspen and mountain meadows. The topography is steep with numerous rock outcrops on the ridges. The watershed is used mainly for cattle grazing except during the winter when snow blankets most of the area. Vegetation consists predominantly of big sagebrush, little sagebrush, rabbitbrush, snowberry, blue bunch wheatgrass, Idaho fescue, and squirreltail grass. 23% of the area has a vegetative cover of 0-25%, 15% of the area has a vegetative cover of 26-50%, 15% of the area has a vegetative cover of 51-75%, and 45% of the area has a vegetative cover of 76-100%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.4-6. Records began: Precipitation - 1963; Runoff - 1967. Precipitation: 'Computed Actual' amounts from rain gage 155X07. Station average precipitation values are computed from 16 Thiessen weighted gages for record period 1968-75 and one gage for 1976. Station average runoff amounts are based on 1967-76 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles N.E. of watershed.

1976 DAILY PRECIPITATION (inches)														REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)													
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
	1	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.04	0.0	0.04	0.0	0.0														
	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.10	0.0	0.0														
	3	0.0	0.21	0.0	0.0	0.08	0.0	0.0	0.16	0.0	0.0	0.0	0.0														
	4	0.62	0.02	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.03														
	5	0.88	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0														
	6	0.40	0.0	0.0	0.08	0.04	0.0	0.0	0.05	0.0	0.0	0.0	0.0														
	7	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	8	0.23	0.0	0.0	0.06	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.06														
	9	0.23	0.0	0.0	0.0	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.13														
	10	0.09	0.0	0.16	0.0	0.02	0.64	0.0	0.0	0.0	0.0	0.0	0.0														
	11	0.60	0.0	0.16	0.10	0.02	0.31	0.0	0.0	0.55	0.0	0.0	0.0														
	12	0.08	0.0	0.0	0.08	0.0	0.15	0.01	0.0	0.0	0.0	0.0	0.0														
	13	0.0	0.08	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0														
	14	0.02	0.39	0.36	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.13	0.0														
	15	0.0	0.35	0.0	0.44	0.0	0.02	0.0	0.28	0.72	0.0	0.07	0.0														
	16	0.0	0.52	0.0	0.0	0.0	0.06	0.0	0.0	0.19	0.0	0.01	0.0														
	17	0.0	0.04	0.0	0.0	0.0	0.0	0.04	0.04	0.01	0.0	0.0	0.0														
	18	0.0	0.08	0.25	0.09	0.0	0.0	0.13	0.02	0.02	0.0	0.0	0.0														
	19	0.0	0.61	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	20	0.0	0.0	0.03	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0														
	21	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	22	0.0	0.0	0.03	0.38	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0														
	23	0.02	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02														
	24	0.0	0.0	0.45	0.16	0.0	0.0	0.07	0.0	0.0	0.44	0.0	0.0														
	25	0.0	0.06	0.10	0.14	0.0	0.0	0.0	0.0	0.0	0.53	0.01	0.0														
	26	0.0	0.02	0.13	0.28	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0														
	27	0.0	0.0	0.05	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	28	0.0	0.73	0.29	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	29	0.0	0.80	0.02	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0														
	30	0.0	0.0	0.0	0.0	0.07	0.0	0.18	0.0	0.0	0.0	0.0	0.0														
	31	0.0	0.0	0.0	0.14	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0														
TOTAL		3.65	3.81	2.49	2.11	0.63	1.44	0.70	1.53	1.49	1.13	0.22	0.24														
STA AV		4.89	2.81	3.25	2.24	1.15	1.81	0.68	1.11	1.10	2.36	3.17	3.71														

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hanson, "Computing Actual Precipitation", Proceedings of WHO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 9 yr (1966-75) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014.

1976	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.04	0.0	0.04	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.10	0.0	0.0
3	0.0	0.01	0.0	0.0	0.05	0.0	0.0	0.15	0.0	0.0	0.0	0.0
4	0.31	0.0?	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.03
5	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0
6	0.20	0.0	0.0	0.06	0.02	0.0	0.0	0.05	0.0	0.0	0.0	0.0
7	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.14	0.0	0.0	0.05	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.03
9	0.14	0.0	0.0	0.0	0.03	0.05	0.0	0.0	0.0	0.0	0.0	0.08
10	0.35	0.0	0.09	0.0	0.02	0.62	0.0	0.0	0.0	0.0	0.0	0.0
11	0.37	0.0	0.06	0.07	0.02	0.29	0.0	0.0	0.49	0.0	0.0	0.0
12	0.05	0.0	0.0	0.06	0.0	0.15	0.01	0.0	0.0	0.0	0.0	0.0
13	0.0	0.05	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0
14	0.02	0.24	0.21	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.13	0.0
15	0.0	0.22	0.0	0.30	0.0	0.02	0.0	0.27	0.59	0.0	0.07	0.0
16	0.0	0.45	0.0	0.0	0.0	0.06	0.0	0.0	0.16	0.0	0.01	0.0
17	0.0	0.72	0.0	0.0	0.0	0.0	0.04	0.03	0.01	0.0	0.0	0.0
18	0.0	0.04	0.17	0.05	0.0	0.0	0.13	0.02	0.02	0.0	0.0	0.0
19	0.0	0.30	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.02	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.02	0.35	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0
23	0.02	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
24	0.0	0.0	0.27	0.09	0.0	0.0	0.06	0.0	0.0	0.26	0.0	0.0
25	0.0	0.06	0.36	0.07	0.0	0.0	0.0	0.0	0.0	0.32	0.01	0.0
26	0.0	0.02	0.08	0.15	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
27	0.0	0.0	0.03	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.64	0.17	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.55	0.01	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.07	0.0	0.18	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.14	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.98	2.62	1.50	1.50	0.56	1.40	0.68	1.38	1.27	0.73	0.22	0.16
STA AV												

NOTES: Values are amounts from unshielded recording gage 155407. STA AV values do not apply to unshielded rain gage records.

1976	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.04	0.0	0.04	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.10	0.0	0.0
3	0.0	0.11	0.0	0.0	0.06	0.0	0.0	0.15	0.0	0.0	0.0	0.0
4	0.45	0.02	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.03
5	0.64	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0
6	0.31	0.0	0.0	0.08	0.02	0.0	0.0	0.05	0.0	0.0	0.0	0.0
7	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.17	0.0	0.0	0.06	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.04
9	0.18	0.0	0.0	0.0	0.04	0.05	0.0	0.0	0.0	0.0	0.0	0.11
10	0.06	0.0	0.12	0.0	0.02	0.62	0.0	0.0	0.0	0.0	0.0	0.0
11	0.45	0.0	0.11	0.06	0.02	0.30	0.0	0.0	0.50	0.0	0.0	0.0
12	0.05	0.0	0.0	0.06	0.0	0.15	0.01	0.0	0.0	0.0	0.0	0.0
13	0.0	0.07	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0
14	0.02	0.32	0.30	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.13	0.0
15	0.0	0.31	0.0	0.37	0.0	0.02	0.0	0.28	0.65	0.0	0.07	0.0
16	0.0	0.54	0.0	0.0	0.0	0.06	0.0	0.0	0.18	0.0	0.01	0.0
17	0.0	0.74	0.0	0.0	0.0	0.0	0.04	0.03	0.01	0.0	0.0	0.0
18	0.0	0.77	0.21	0.05	0.0	0.0	0.13	0.02	0.02	0.0	0.0	0.0
19	0.0	0.47	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0?	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.03	0.35	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0
23	0.02	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
24	0.0	0.0	0.36	0.12	0.0	0.0	0.06	0.0	0.0	0.35	0.0	0.0
25	0.0	0.36	0.08	0.10	0.0	0.0	0.0	0.0	0.0	0.42	0.01	0.0
26	0.0	0.72	0.11	0.20	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
27	0.0	0.0	0.04	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.69	0.22	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.67	0.01	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.07	0.0	0.18	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.14	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	2.69	3.29	1.95	1.73	0.58	1.41	0.68	1.45	1.36	0.92	0.22	0.20
STA AV												

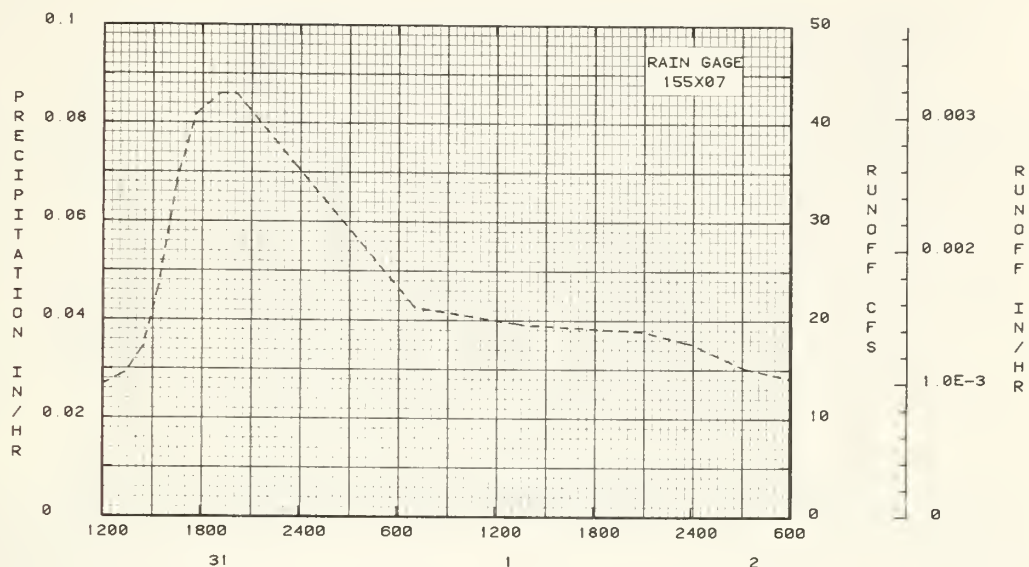
NOTES: Values are amounts from shielded recording gage 155507. STA AV values do not apply to shielded rain gage records.

1976	MEAN DAILY DISCHARGE (cfs)					REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	5.92	4.80	8.24	22.07	70.87	31.62	6.26	2.25	0.53	1.13	1.81	1.27
2	4.33	4.95	7.37	17.01	88.37	29.18	6.15	2.42	0.54	1.48	1.84	1.38
3	4.43	5.15	6.38	22.55	86.45	27.98	5.60	2.67	0.56	1.68	1.88	1.44
4	4.95	5.33	5.50	38.82	85.30	26.36	5.22	2.52	0.53	1.59	1.84	1.39
5	5.15	3.82	5.07	52.06	85.28	24.85	4.96	2.13	0.44	1.57	1.82	1.49
6	4.65	2.98	4.97	48.25	81.43	23.13	4.52	2.25	0.54	1.51	1.81	1.71
7	4.81	3.02	4.73	57.26	86.93	21.20	4.25	2.07	0.68	1.50	1.76	1.47
8	5.76	3.44	5.50	79.50	91.15	22.49	4.02	2.05	0.71	1.49	1.76	1.61
9	5.16	3.28	5.56	71.78	96.31	21.66	3.85	1.75	0.63	1.45	1.76	1.61
10	4.73	3.18	7.29	73.23	109.20	25.58	3.65	1.36	0.52	1.41	1.76	1.67
11	4.62	3.09	8.27	74.99	106.72	34.68	3.39	1.24	1.48	1.44	1.76	1.69
12	4.61	3.62	8.59	66.15	96.46	26.02	3.20	1.14	1.49	1.49	1.56	1.78
13	4.46	4.52	7.81	58.58	103.31	25.39	3.04	1.08	1.21	1.47	1.20	1.61
14	4.52	5.38	8.52	56.41	103.39	20.64	2.85	1.06	1.22	1.47	1.65	1.61
15	7.30	5.03	8.31	51.95	92.90	17.49	2.63	1.74	2.09	1.48	1.95	1.56
16	7.69	5.07	8.91	44.55	90.04	18.87	2.46	1.96	2.86	1.50	2.25	1.63
17	7.12	5.56	12.37	40.45	87.29	16.55	2.93	1.69	2.34	1.48	1.97	1.50
18	6.75	5.32	14.73	38.32	81.17	15.05	3.33	1.83	2.05	1.41	1.87	1.37
19	6.23	5.11	12.79	37.30	74.14	13.65	3.35	1.69	1.79	1.41	1.84	1.08
20	5.76	5.59	11.40	48.19	67.75	12.70	2.82	1.33	1.49	1.45	1.69	0.90
21	5.32	5.39	12.36	47.35	62.20	12.68	2.63	0.99	1.37	1.55	1.67	0.95
22	5.15	5.23	13.37	50.24	57.89	11.57	2.27	1.13	1.35	1.61	1.79	1.14
23	5.15	5.03	12.45	46.00	54.82	10.81	2.06	1.59	1.31	1.64	1.53	1.32
24	4.90	5.17	14.63	57.96	52.62	10.25	2.18	1.30	1.23	1.67	1.67	1.27
25	4.70	5.68	13.35	60.83	49.08	9.47	2.06	0.95	1.24	2.41	1.69	1.28
26	4.59	7.37	12.42	50.21	45.44	9.16	1.81	1.00	1.19	2.03	1.56	1.32
27	4.51	8.07	12.18	49.05	42.93	8.47	1.62	1.00	1.13	1.88	1.42	1.32
28	4.65	15.40	11.42	49.54	45.39	7.56	1.53	0.83	1.19	1.79	0.99	1.10
29	4.70	9.38	10.97	50.25	39.52	6.92	1.58	0.66	1.19	1.82	0.94	0.98
30	4.80		12.84	57.40	36.61	6.36	1.77	0.58	1.15	1.81	1.12	0.76
31	4.80		23.60		36.86		2.09	0.60		1.81		0.66
MEAN	5.233	5.340	10.060	50.620	74.445	18.278	3.228	1.512	1.201	1.595	1.672	1.351
INCHES	0.287	0.274	0.552	2.687	4.083	0.970	0.177	0.083	0.064	0.087	0.089	0.074
STA AV	0.753	0.495	1.194	1.912	3.701	1.760	0.311	0.061	0.042	0.096	0.156	0.245

NOTES: To convert CFS to IN/DAY, multiply by 0.001769. STA AV values are based on 10 yr (1967-76) record period.

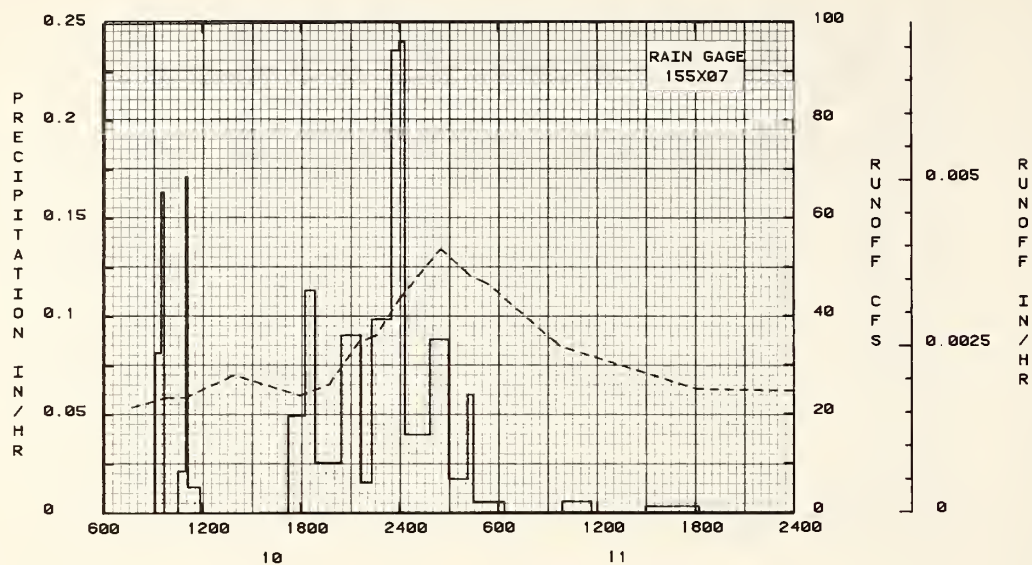
1976	SELECTED RUNOFF EVENT			REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
			EVENT OF	MARCH	31 -	APRIL	2, 1976				
3-31		0.013					3-31	1200	13.418	0.0	
								1324	14.585	0.0015	
								1430	17.287	0.0027	
								1526	23.508	0.0041	
								1632	34.321	0.0065	
WATERSHED CONDITIONS:								1738	40.866	0.0095	
The event is snowmelt								1908	43.035	0.0142	
without rain.								2006	43.035	0.0172	
								2400	35.279	0.0285	
							4- 1	704	21.262	0.0432	
								1344	19.510	0.0532	
								2058	18.846	0.0635	
								2400	17.588	0.0675	
							4- 2	316	15.084	0.0715	

NOTES: To convert CFS to IN/HR, multiply by 0.00007372.



1976 SELECTED RUNOFF EVENT				REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Painfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 10 - 11, 1976										
6-10	RG 155X07		6-10	EG 155X07			6-10	746	21.628	0.0
	0.03	0.012		614	0.0	0.0		950	23.508	0.0034
				910	0.0	0.0		1058	23.508	0.0054
				932	0.0818	0.03		1356	28.097	0.0110
				943	0.1636	0.06		1756	23.892	0.0187
				1033	0.0	0.06				
				1101	0.0214	0.07		1944	26.185	0.0220
				1108	0.1714	0.09		2132	34.798	0.0261
				1154	0.0130	0.10		2238	36.254	0.0290
				1715	0.0	0.10		2400	43.589	0.0330
				1816	0.0492	0.15	6-11	230	53.750	0.0419
				1853	0.1135	0.22		418	48.194	0.0487
				2027	0.0255	0.26		526	46.431	0.0527
				2140	0.0904	0.37		944	33.848	0.0654
				2219	0.0154	0.38		1802	25.045	0.0834
				2332	0.0986	0.50		2400	24.661	0.0943
				2400	0.2357	0.61				
			6-11	20	0.2400	0.69				
				151	0.0396	0.75				
				259	0.0882	0.85				
				410	0.0169	0.87				
				430	0.0600	0.89				
				623	0.0053	0.90				
				953	0.0	0.90				
				1140	0.0056	0.91				
				1457	0.0	0.91				
				1812	0.0031	0.92				

NOTES: To convert CFS to IN/HR, multiply by 0.00007372.



EVENT OF JUNE 10 - 11, 1976
 REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)

REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)

LOCATION: Owyhee County, Idaho; 35 miles south of Nampa, Idaho; an east-flowing tributary to Reynolds Creek, tributary to the Snake Rvr. Lat. 43 deg. 15 min. 21 sec. N.; Long. 116 deg. 49 min. 1 sec. W.

AREA: 306.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	1.95	2.38	1.43	1.39	0.47	2.13	1.10	1.07	1.83	1.04	0.33	0.25	15.37					
	Q	0.547	0.578	1.355	2.623	1.145	0.254	0.042	0.036	0.052	0.105	0.120	0.167	7.363					
STA AV	P	3.06	1.56	2.37	2.03	0.95	2.28	0.52	0.69	1.17	2.04	2.26	2.48	21.53					
	Q	1.469	0.810	1.832	1.902	1.134	0.340	0.062	0.009	0.009	0.062	0.142	0.386	8.157					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		4- 8	0.007	4- 8	0.007	4- 8	0.014	4- 8	0.040	4- 8	0.077	4- 8	0.147	4- 8	0.277	4- 7	0.989		
MAXIMUMS FOR PERIOD OF RECORD																			
		1-27	0.060	1-21	0.050	1-20	0.096	1-20	0.261	1-20	0.445	1-20	0.720	1-20	1.050	3- 1	1.931		
		1970		1969		1969		1969		1969		1969		1969		1972			

NOTES: Watershed conditions: Watershed is sagebrush rangeland used almost exclusively for cattle grazing. Willows are common along watercourses and in seep areas. Vegetation consists largely of big sagebrush, bitterbrush, Idaho fescue, Sandberg bluegrass, bluebunch wheatgrass, squirreltail grass, and snowberry. 10% of the area has a vegetative cover of 0-25%, 35% of the area has a vegetative cover of 26-50%, 20% of the area has a vegetative cover of 51-75%, and 35% of the area has a vegetative cover of 76-100%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.11-6. Records started: Precipitation - 1963; runoff - 1967. Precipitation: 'Computed Actual' amounts from rain gage 033176. Station average precipitation values are computed from 3 Thiessen weighted gages for record period 1968-75 and one gage for 1976. STA AV runoff values are based on 1967-76 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

1976	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)								
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.13	0.0	0.0		
3	0.13	0.01	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0		
4	0.39	0.01	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.01		
5	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.07	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0		
7	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.27	0.0	0.0	0.20	0.02	0.50	0.0	0.0	0.0	0.0	0.0	0.09		
9	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10		
10	0.0	0.0	0.13	0.0	0.03	0.68	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.26	0.0	0.0	0.01	0.0	0.29	0.0	0.0	1.10	0.0	0.0	0.0		
12	0.04	0.0	0.0	0.05	0.0	0.28	0.0	0.08	0.0	0.0	0.0	0.0		
13	0.0	0.13	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.16	0.20	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.19	0.0		
15	0.0	0.08	0.02	0.24	0.0	0.01	0.0	0.0	0.41	0.0	0.12	0.0		
16	0.0	0.20	0.0	0.0	0.0	0.14	0.0	0.0	0.30	0.0	0.02	0.0		
17	0.0	0.32	0.0	0.0	0.0	0.0	0.16	0.04	0.0	0.0	0.0	0.0		
18	0.0	0.02	0.10	0.12	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.40	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.05	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.34	0.0	0.01	0.0	0.16	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05		
24	0.0	0.0	0.27	0.05	0.0	0.0	0.05	0.0	0.0	0.44	0.0	0.0		
25	0.0	0.06	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.0		
26	0.0	0.0	0.09	0.14	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.52	0.38	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.0		0.0	0.0	0.03	0.0	0.29	0.0	0.0	0.0	0.0	0.0		
31	0.0		0.0		0.10		0.24	0.0		0.0		0.0		
TOTAL	1.95	2.38	1.43	1.39	0.47	2.13	1.10	1.07	1.83	1.04	0.33	0.25		
STA AV	3.06	1.66	2.37	2.03	0.95	2.28	0.52	0.69	1.17	2.04	2.28	2.48		

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hanson, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (O/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 9 yr (1968-76) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014.

1976	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.08	0.0	0.0	
3	0.07	0.01	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	
4	0.21	0.01	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.04	
5	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.05	0.0	0.0	0.07	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	
7	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.14	0.0	0.0	0.17	0.02	0.47	0.0	0.0	0.0	0.0	0.0	0.03	
9	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	
10	0.0	0.0	0.06	0.0	0.03	0.68	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.13	0.0	0.0	0.01	0.0	0.29	0.0	0.0	1.09	0.0	0.0	0.0	
12	0.02	0.0	0.0	0.04	0.0	0.27	0.0	0.08	0.0	0.0	0.0	0.0	
13	0.0	0.06	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.08	0.10	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.15	0.0	
15	0.0	0.04	0.01	0.16	0.0	0.01	0.0	0.0	0.38	0.0	0.11	0.0	
16	0.0	0.10	0.0	0.0	0.0	0.13	0.0	0.0	0.27	0.0	0.02	0.0	
17	0.0	0.01	0.0	0.0	0.0	0.0	0.15	0.02	0.0	0.0	0.0	0.0	
18	0.0	0.01	0.06	0.08	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.25	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.03	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.20	0.0	0.01	0.0	0.08	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	
24	0.0	0.0	0.11	0.03	0.0	0.0	0.04	0.0	0.0	0.25	0.0	0.0	
25	0.0	0.05	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	
26	0.0	0.0	0.04	0.09	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.41	0.16	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.03	0.0	0.29	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.10	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	1.01	1.43	0.58	0.95	0.47	2.07	1.03	0.96	1.76	0.59	0.28	0.13	
STA AV													

NOTES: Values are amounts from unshielded recording gage 033476. STA AV values do not apply to unshielded rain gage records.

1976	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.09	0.0	0.0	
3	0.09	0.01	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	
4	0.30	0.01	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.01	
5	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.07	0.0	0.0	0.07	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	
7	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.20	0.0	0.0	0.18	0.02	0.49	0.0	0.0	0.0	0.0	0.0	0.05	
9	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	
10	0.0	0.0	0.10	0.0	0.03	0.68	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.17	0.0	0.0	0.01	0.0	0.29	0.0	0.0	1.09	0.0	0.0	0.0	
12	0.02	0.0	0.0	0.04	0.0	0.27	0.0	0.08	0.0	0.0	0.0	0.0	
13	0.0	0.09	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.12	0.17	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.17	0.0	
15	0.0	0.06	0.02	0.19	0.0	0.01	0.0	0.0	0.39	0.0	0.12	0.0	
16	0.0	0.14	0.0	0.0	0.0	0.13	0.0	0.0	0.29	0.0	0.02	0.0	
17	0.0	0.02	0.0	0.0	0.0	0.0	0.16	0.04	0.0	0.0	0.0	0.0	
18	0.0	0.01	0.08	0.10	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.33	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.04	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.26	0.0	0.01	0.0	0.13	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	
24	0.0	0.0	0.17	0.04	0.0	0.0	0.04	0.0	0.0	0.34	0.0	0.0	
25	0.0	0.05	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	
26	0.0	0.0	0.07	0.12	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.45	0.26	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.03	0.0	0.29	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.10	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	1.39	1.64	1.06	1.14	0.47	2.09	1.06	1.04	1.79	0.79	0.31	0.17	
STA AV													

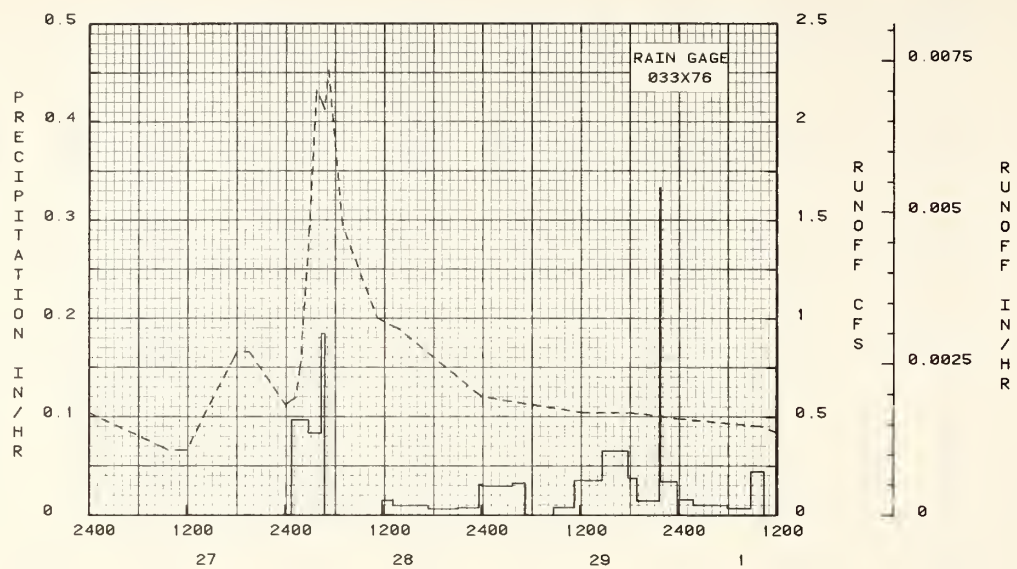
NOTES: Values are amounts from shielded recording gage 033576. STA AV values do not apply to shielded rain gage records.

1976 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO MDRPHY CREEK WATERSHED (043004)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.193	0.265	0.408	0.662	0.762	0.151	0.049	0.002	0.0 T	0.031	0.056	0.034
2	0.173	0.274	0.391	0.619	0.829	0.142	0.050	0.051	0.0	0.034	0.047	0.034
3	0.166	0.273	0.385	0.733	0.873	0.140	0.044	0.041	0.0	0.036	0.052	0.036
4	0.180	0.225	0.340	0.905	0.821	0.132	0.038	0.029	0.0	0.036	0.056	0.039
5	0.247	0.195	0.319	1.016	0.805	0.126	0.038	0.016	0.0	0.039	0.056	0.039
6	0.189	0.134	0.314	1.206	0.805	0.117	0.032	0.013	0.0	0.036	0.056	0.042
7	0.188	0.194	0.324	1.356	0.732	0.111	0.027	0.011	0.0	0.034	0.056	0.050
8	0.475	0.181	0.366	1.710	0.775	0.144	0.025	0.017	0.0	0.034	0.056	0.050
9	0.471	0.181	0.400	1.799	0.755	0.123	0.026	0.016	0.0	0.034	0.053	0.050
10	0.342	0.177	0.652	1.685	0.668	0.162	0.017	0.013	0.0	0.034	0.050	0.050
11	0.323	0.189	0.427	1.659	0.601	0.220	0.017	0.008	0.029	0.036	0.050	0.050
12	0.275	0.207	0.398	1.582	0.550	0.170	0.019	0.006	0.015	0.039	0.050	0.050
13	0.242	0.236	0.382	1.503	0.508	0.152	0.012	0.008	0.017	0.039	0.050	0.050
14	0.257	0.206	0.467	1.392	0.488	0.121	0.012	0.008	0.019	0.036	0.062	0.050
15	0.657	0.189	0.564	1.345	0.488	0.105	0.012	0.019	0.036	0.036	0.060	0.050
16	1.265	0.235	0.648	1.284	0.471	0.105	0.012	0.023	0.068	0.039	0.066	0.050
17	0.987	0.191	0.920	1.184	0.414	0.101	0.012	0.029	0.053	0.039	0.059	0.050
18	0.781	0.174	0.987	1.103	0.381	0.090	0.012	0.032	0.041	0.039	0.056	0.047
19	0.610	0.158	0.658	1.026	0.346	0.089	0.012	0.026	0.039	0.039	0.056	0.039
20	0.493	0.167	0.574	0.967	0.312	0.084	0.020	0.015	0.036	0.039	0.056	0.029
21	0.430	0.151	0.662	0.911	0.293	0.089	0.023	0.008	0.034	0.039	0.056	0.027
22	0.368	0.149	0.712	0.986	0.263	0.085	0.010	0.006	0.034	0.039	0.056	0.044
23	0.371	0.152	0.641	0.860	0.251	0.081	0.004	0.018	0.034	0.039	0.056	0.050
24	0.324	0.145	0.794	0.856	0.226	0.071	0.004	0.015	0.034	0.040	0.053	0.047
25	0.300	0.153	0.657	0.911	0.212	0.071	0.001	0.008	0.034	0.078	0.050	0.044
26	0.274	0.468	0.665	0.911	0.201	0.072	0.001	0.006	0.032	0.070	0.035	0.044
27	0.266	0.526	0.640	0.968	0.178	0.065	0.0 T	0.006	0.030	0.063	0.030	0.044
28	0.266	1.072	0.584	0.911	0.218	0.057	0.0 T	0.005	0.025	0.063	0.046	0.047
29	0.271	0.525	0.563	0.857	0.173	0.047	0.0 T	0.002	0.028	0.063	0.030	0.050
30	0.274		0.752	0.805	0.152	0.044	0.002	0.002	0.029	0.063	0.019	0.044
31	0.275		0.821		0.171		0.004	0.001		0.063		0.039
MEAN	0.3928	0.2564	0.5617	1.1239	0.4750	0.1089	0.0173	0.0149	0.0223	0.0436	0.0512	0.0442
INCHES	0.947	0.578	1.355	2.623	1.145	0.254	0.042	0.036	0.052	0.105	0.120	0.107
STA AV	1.465	0.810	1.832	1.902	1.134	0.340	0.062	0.009	0.009	0.062	0.142	0.386

NOTES: To convert CFS to IN/DAY, multiply by 0.077783. STA AV values are based on 10 yr (1967-76) record period.

1976			SELECTED RUNOFF EVENT										REYNOLDS, IDAHO MDRPHY CREEK WATERSHED (043004)									
ANTECEDENT CONDITIONS			FAINFALL						RUNOFF													
Date	Fainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.												
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)												
EVENT OF FEBRUARY 26 - MARCH 1, 1976																						
BG 033X76			BG 033X76																			
2-28	0.0		2-28	46	0.0	0.0	2-26	2400	0.518	0.0												
2-26		0.036		250	0.0968	0.20	2-27	942	0.326	0.0133												
				424	0.0830	0.33		1158	0.326	0.0157												
				450	0.1846	0.41		1514	0.597	0.0205												
				1150	0.0	0.41		1806	0.831	0.0272												
WATERSHED CONDITIONS:				1310	0.0150	0.43		1934	0.831	0.0311												
The event is combined rain				1731	0.0092	0.47		2400	0.556	0.0411												
and snowmelt. The precip-				2102	0.0057	0.49	2-28	118	0.597	0.0435												
itation fell in the form				2341	0.0075	0.51		154	0.780	0.0449												
of rain and snow.				2400	0.0316	0.52		256	1.465	0.0486												
			2-29	346	0.0292	0.63		344	2.159	0.0533												
				519	0.0323	0.68		444	2.063	0.0602												
				844	0.0	0.68		512	2.259	0.0634												
				1119	0.0077	0.70		656	1.465	0.0739												
				1442	0.0355	0.82		1110	0.996	0.0908												
				1755	0.0653	1.03		1356	0.939	0.0994												
				1859	0.0375	1.07		2400	0.597	0.1245												
				2143	0.0146	1.11	2-29	1216	0.518	0.1467												
				2152	0.3333	1.16		1806	0.518	0.1565												
				2355	0.0341	1.23		2400	0.488	0.1661												
				2400	0.0	1.23	3- 1	1018	0.455	0.1818												
			3- 1	153	0.0159	1.26																
				600	0.0097	1.30																
				855	0.0069	1.32																
				1030	0.0442	1.39																

NOTES: To convert CFS to IN/HR, multiply by 0.003241.



EVENT OF FEBRUARY 26 - MARCH 1, 1976
 REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)

REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa, north flowing tributary to the east fork of Reynolds Creek, Snake River Basin. Lat. 43 deg. 4 min. 16 sec. N.; Long. 116 deg. 45 min. 27 sec. W.

AREA: 100.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	6.96	7.05	3.97	2.74	1.00	1.70	0.74	1.42	1.78	1.42	0.45	0.36	29.59					
	Q	0.342	0.245	0.253	3.035	13.605	2.907	0.344	0.174	0.135	0.157	0.154	0.060	21.412					
STA AV	P	7.53	4.77	4.78	3.26	1.48	2.02	0.74	1.17	1.18	2.93	4.41	5.89	40.15					
	Q	0.397	0.304	0.621	2.459	10.782	5.305	0.620	0.106	0.071	0.145	0.239	0.228	21.278					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		5-13	0.046	5-13	0.044	5-13	0.088	5-13	0.256	5-13	0.466	5-13	0.802	5-13	1.477	5- 9	5.376		
MAXIMUMS FOR PERIOD OF RECORD																			
		6- 2	0.092	6- 2	0.079	6- 2	0.143	6- 2	0.400	6- 2	0.692	6- 2	1.117	6- 1	2.013	5-30	7.174		
		1975		1975		1975		1975		1975		1975		1975		1975			

NOTES: Watershed conditions: Sangeland watershed with seasonal grazing of cattle and sheep. Scrub aspen, willow, scattered Douglas fir, and sagebrush with natural mountain meadows. Vegetative cover varies with annual precipitation. Type of cover is 32% shrub and brush, 17% grass and forbes, and 9% rock and rock fragments. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 68. 13-4. Records started: Precipitation-1963; Runoff-1966. Precipitation: 'Computed Actual' amounts from rain gage 176X107. Station average precipitation values are based on 1966-76 record period. STA AV runoff values are based on 1966-76 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

1976 DAILY AVE TEMPERATURE (degrees F)														REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min														
1	15 11	42 33	23 3	23 14	53 39	59 31	59 34	63 51	81 61	66 47	51 41	47 29															
2	17 6	44 33	19 1	30 13	53 37	51 31	65 45	65 51	77 54	50 35	55 43	46 33															
3	21 17	35 11	22 6	40 23	43 32	48 29	75 53	65 47	75 55	46 32	55 42	46 31															
4	27 17	11 -3	17 4	42 34	46 31	51 31	73 55	59 45	79 60	50 32	59 45	34 24															
5	27 17	6 -5	19 4	46 38	45 29	58 36	79 57	63 43	79 61	56 37	58 46	31 19															
6	17 12	19 4	32 14	38 26	42 27	63 49	80 64	62 45	61 47	54 39	58 46	33 22															
7	27 13	39 19	35 17	42 31	52 36	63 47	75 58	65 39	53 32	59 43	57 46	39 30															
8	28 27	35 29	40 20	43 29	56 44	60 42	77 57	59 41	55 37	64 50	55 42	41 25															
9	27 14	30 18	37 22	33 24	58 43	59 41	75 56	64 44	67 46	69 53	51 39	25 17															
10	21 12	31 16	39 19	45 31	58 37	45 36	79 60	70 51	75 57	63 47	47 37	29 15															
11	26 21	40 30	19 11	42 29	47 25	53 35	77 53	71 56	63 48	54 40	43 34	42 29															
12	23 10	40 30	27 10	32 25	59 33	47 37	65 47	69 55	56 41	59 40	39 32	48 36															
13	25 9	45 27	32 24	38 22	71 49	43 29	70 48	71 51	57 43	67 49	44 30	47 31															
14	30 24	28 21	29 19	40 22	55 31	53 31	72 53	53 43	61 47	62 49	35 29	41 29															
15	36 29	25 22	33 16	36 13	50 26	63 45	77 57	47 37	54 45	57 44	37 29	42 29															
16	46 33	31 24	36 32	26 13	61 39	55 41	83 62	50 35	55 43	57 42	47 37	47 33															
17	40 31	32 20	42 33	35 17	56 40	59 41	65 53	54 41	49 40	44 30	53 41	47 31															
18	31 19	26 15	36 17	33 23	56 38	65 45	60 49	51 43	51 43	42 25	47 37	39 27															
19	31 17	23 16	17 14	39 20	57 29	75 57	69 47	63 43	54 43	45 33	43 33	35 27															
20	41 27	22 15	27 13	43 28	49 25	69 53	73 55	75 54	65 48	54 34	47 32	39 25															
21	44 29	29 15	37 22	39 22	56 35	58 41	73 58	79 61	60 47	56 42	49 37	37 23															
22	38 28	35 25	39 20	32 25	57 45	57 39	76 59	73 48	63 47	52 37	46 34	37 26															
23	29 17	37 29	29 18	42 20	61 43	58 34	79 58	60 47	63 49	47 33	48 31	31 19															
24	20 14	29 22	36 19	47 27	58 41	62 35	66 51	69 50	61 47	50 35	46 35	23 12															
25	23 15	31 25	22 15	27 17	50 31	55 31	73 53	71 40	61 45	32 27	37 17	39 23															
26	31 21	37 29	31 16	24 17	53 35	59 29	81 59	55 34	61 45	34 29	18 7	43 28															
27	37 30	37 30	21 13	31 24	65 36	71 51	75 57	63 41	65 50	41 27	17 5	34 22															
28	44 33	30 18	24 15	35 23	45 29	79 67	77 57	71 53	64 52	49 34	27 10	47 25															
29	43 37	30 21	27 14	33 29	56 29	77 63	72 59	77 60	66 53	45 36	35 19	43 32															
30	36 27		39 21	46 33	49 37	69 45	77 57	75 59	67 52	49 35	41 25	35 23															
31	48 29		41 23		47 33		73 53	76 59		47 41		27 16															
AV.	31 21	31 20	30 16	37 24	54 35	59 41	73 54	65 47	63 48	52 38	45 33	39 26															
MEAN	25.8	25.7	23.0	30.3	44.5	50.2	63.8	56.1	55.6	45.2	38.8	32.1															
STA AV	28 19	32 21	33 21	37 23	52 36	63 44	73 54	71 52	61 43	47 33	37 27	29 20															

NOTES: Temperature data are taken from hygrothermograph record at station 176X14. STA AV values are based on 1966-76 record period.

1976 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.07	0.0	0.10	0.0	0.0
2	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.39	0.0	0.08	0.0	0.0
3	0.08	0.0	0.0	0.0	0.07	0.0	0.0	0.02	0.0	0.0	0.0	0.0
4	1.37	0.11	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.07
5	1.41	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
6	0.62	0.0	0.0	0.20	0.10	0.0	0.0	0.03	0.0	0.0	0.0	0.0
7	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.84	0.04	0.0	0.10	0.11	0.05	0.0	0.0	0.0	0.0	0.0	0.08
9	0.28	0.04	0.0	0.0	0.05	0.01	0.0	0.0	0.0	0.0	0.0	0.18
10	0.0	0.0	0.20	0.0	0.06	0.94	0.0	0.0	0.0	0.0	0.0	0.0
11	0.86	0.0	0.18	0.18	0.05	0.32	0.0	0.0	0.88	0.0	0.0	0.0
12	0.08	0.0	0.0	0.17	0.0	0.25	0.06	0.01	0.01	0.0	0.0	0.0
13	0.0	0.18	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
14	0.03	0.66	0.49	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.25	0.0
15	0.0	0.84	0.0	0.49	0.0	0.03	0.0	0.25	0.65	0.0	0.18	0.0
16	0.0	1.73	0.0	0.0	0.0	0.08	0.01	0.0	0.19	0.0	0.01	0.0
17	0.0	0.08	0.0	0.02	0.0	0.0	0.08	0.03	0.02	0.0	0.0	0.0
18	0.0	0.20	0.51	0.17	0.0	0.0	0.19	0.05	0.03	0.0	0.0	0.0
19	0.0	0.92	0.17	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.07	0.03	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.04	0.56	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0
23	0.02	0.0	0.03	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03
24	0.0	0.0	1.12	0.08	0.0	0.0	0.10	0.0	0.0	0.16	0.0	0.0
25	0.0	0.18	0.15	0.11	0.0	0.0	0.0	0.0	0.0	1.06	0.01	0.0
26	0.0	0.38	0.18	0.18	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0
27	0.0	0.34	0.04	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.94	0.56	0.02	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	1.31	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.09	0.0	0.07	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.18	0.18	0.17	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	6.96	7.05	3.97	2.74	1.00	1.70	0.74	1.42	1.78	1.42	0.45	0.36
STA AV	7.53	4.77	4.78	3.26	1.48	2.02	0.74	1.17	1.18	2.93	4.41	5.89

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) at Station 176X07. 'Actual' amounts were computed as per relationship developed by W. P. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 9 yr (1968-76) record period.

1976 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.1	0.21	0.0	0.0	0.0	0.0	0.07	0.0	0.08	0.0	0.0
2	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.39	0.0	0.07	0.0	0.0
3	0.04	0.0	0.0	0.0	0.05	0.0	0.0	0.02	0.0	0.0	0.0	0.0
4	0.73	0.03	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.07
5	0.74	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
6	0.25	0.0	0.0	0.10	0.07	0.0	0.0	0.03	0.0	0.0	0.0	0.0
7	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.46	0.11	0.0	0.05	0.08	0.05	0.0	0.0	0.0	0.0	0.0	0.03
9	0.15	0.01	0.0	0.0	0.04	0.01	0.0	0.0	0.0	0.0	0.0	0.05
10	0.0	0.0	0.09	0.0	0.06	0.93	0.0	0.0	0.0	0.0	0.0	0.0
11	0.47	0.0	0.09	0.09	0.05	0.31	0.0	0.0	0.88	0.0	0.0	0.0
12	0.04	0.0	0.0	0.09	0.0	0.25	0.06	0.01	0.01	0.0	0.0	0.0
13	0.0	0.10	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
14	0.03	0.34	0.23	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.19	0.0
15	0.0	0.41	0.0	0.29	0.0	0.03	0.0	0.24	0.65	0.0	0.14	0.0
16	0.0	0.83	0.0	0.0	0.0	0.08	0.01	0.0	0.19	0.0	0.01	0.0
17	0.0	0.04	0.0	0.01	0.0	0.0	0.08	0.03	0.02	0.0	0.0	0.0
18	0.0	0.10	0.21	0.11	0.0	0.0	0.17	0.05	0.03	0.0	0.0	0.0
19	0.0	0.46	0.07	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.03	0.02	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.02	0.41	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0
23	0.02	0.0	0.02	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03
24	0.0	0.0	0.50	0.07	0.0	0.0	0.10	0.0	0.0	0.09	0.0	0.0
25	0.0	0.09	0.06	0.09	0.0	0.0	0.0	0.0	0.0	0.57	0.01	0.0
26	0.0	0.04	0.09	0.15	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
27	0.0	0.02	0.02	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.50	0.27	0.02	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.69	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.08	0.0	0.07	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.16	0.16	0.17	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	3.60	3.67	1.93	1.85	0.84	1.68	0.72	1.39	1.78	0.82	0.35	0.18
STA AV												

NOTES: Values are amounts from unshielded recording gage 176407. STA AV values do not apply to unshielded rain gage records.

1976	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.07	0.0	0.09	0.0	0.0	
2	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.39	0.0	0.07	0.0	0.0	
3	0.05	0.0	0.0	0.0	0.06	0.0	0.0	0.02	0.0	0.0	0.0	0.0	
4	1.04	0.06	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.07	
5	1.04	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	
6	0.42	0.0	0.0	0.15	0.07	0.0	0.0	0.03	0.0	0.0	0.0	0.0	
7	0.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.64	0.02	0.0	0.08	0.09	0.05	0.0	0.0	0.0	0.0	0.0	0.05	
9	0.21	0.02	0.0	0.0	0.04	0.01	0.0	0.0	0.0	0.0	0.0	0.10	
10	0.0	0.0	0.14	0.0	0.06	0.93	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.06	0.0	0.15	0.14	0.05	0.31	0.0	0.0	0.88	0.0	0.0	0.0	
12	0.05	0.0	0.0	0.14	0.0	0.25	0.06	0.01	0.01	0.0	0.0	0.0	
13	0.0	0.13	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.03	0.50	0.36	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.22	0.0	
15	0.0	0.51	0.0	0.39	0.0	0.03	0.0	0.25	0.65	0.0	0.15	0.0	
16	0.0	1.25	0.0	0.0	0.0	0.08	0.01	0.0	0.19	0.0	0.01	0.0	
17	0.0	0.07	0.0	0.02	0.0	0.0	0.08	0.03	0.02	0.0	0.0	0.0	
18	0.0	0.16	0.33	0.15	0.0	0.0	0.18	0.05	0.03	0.0	0.0	0.0	
19	0.0	0.71	0.11	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.05	0.02	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.02	0.43	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	
23	0.02	0.0	0.03	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03	
24	0.0	0.0	0.77	0.08	0.0	0.0	0.10	0.0	0.0	0.12	0.0	0.0	
25	0.0	0.14	0.12	0.09	0.0	0.0	0.0	0.0	0.0	0.81	0.01	0.0	
26	0.0	0.07	0.15	0.16	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	
27	0.0	0.03	0.03	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.70	0.42	0.02	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.07	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.09	0.0	0.07	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.16	0.16	0.17	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	5.14	5.35	2.91	2.32	0.87	1.68	0.73	1.40	1.78	1.10	0.39	0.25	
STA AV													

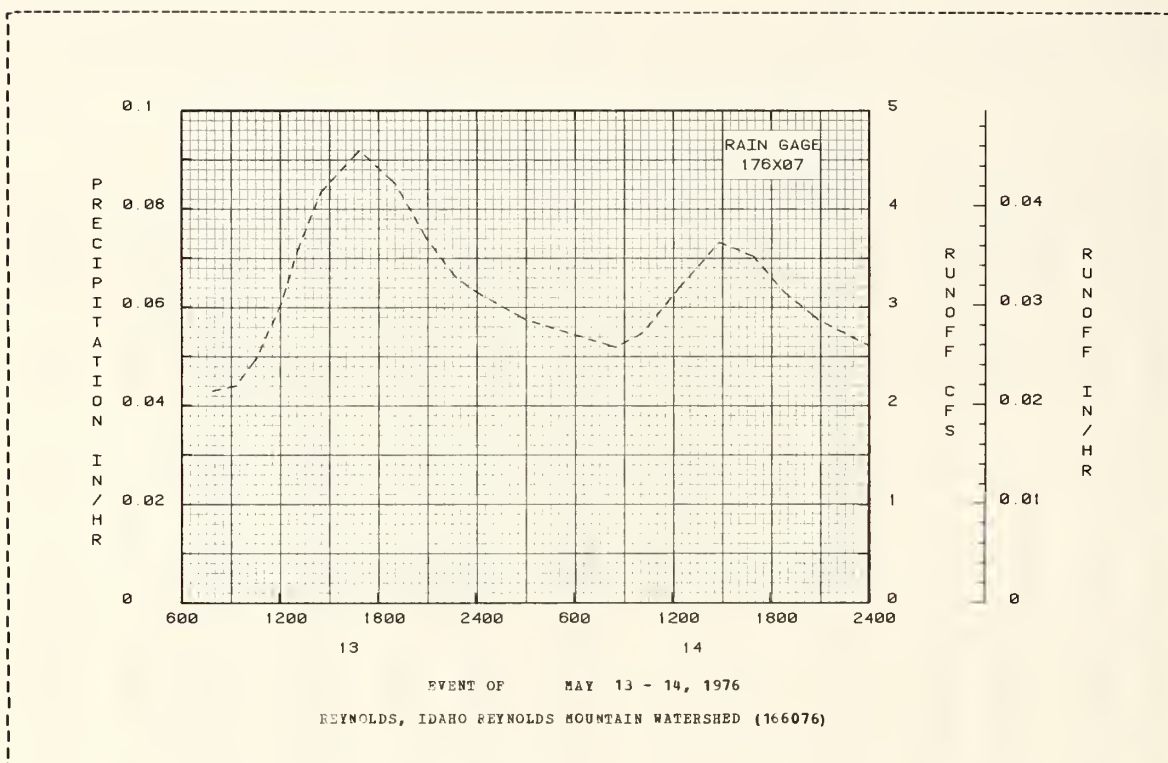
NOTES: Values are amounts from shielded recording gage 176507. STA AV values do not apply to shielded rain gage records.

1976	MEAN DAILY DISCHARGE (cfs)					REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.057	0.040	0.033	0.060	1.542	0.744	0.095	0.035	0.010	0.021	0.033	0.003	
2	0.057	0.038	0.033	0.049	2.022	0.685	0.090	0.047	0.010	0.022	0.034	0.003	
3	0.054	0.038	0.032	0.051	1.532	0.636	0.084	0.034	0.010	0.022	0.030	0.004	
4	0.052	0.035	0.032	0.072	1.553	0.581	0.078	0.036	0.010	0.020	0.029	0.006	
5	0.050	0.039	0.032	0.126	1.693	0.552	0.070	0.028	0.009	0.020	0.027	0.006	
6	0.048	0.039	0.032	0.175	1.496	0.538	0.064	0.028	0.011	0.019	0.026	0.006	
7	0.048	0.038	0.033	0.216	2.198	0.515	0.059	0.026	0.013	0.020	0.025	0.006	
8	0.049	0.036	0.034	0.490	2.219	0.503	0.057	0.026	0.012	0.020	0.024	0.008	
9	0.049	0.035	0.035	0.562	2.326	0.487	0.052	0.025	0.012	0.019	0.024	0.010	
10	0.048	0.035	0.036	0.609	3.046	0.660	0.049	0.021	0.013	0.019	0.023	0.009	
11	0.047	0.034	0.035	0.707	2.747	0.897	0.049	0.019	0.051	0.019	0.023	0.009	
12	0.047	0.034	0.034	0.504	2.665	0.615	0.053	0.018	0.015	0.020	0.019	0.009	
13	0.046	0.034	0.033	0.432	3.143	0.500	0.045	0.018	0.016	0.020	0.016	0.010	
14	0.045	0.034	0.033	0.484	3.003	0.423	0.042	0.023	0.017	0.018	0.019	0.010	
15	0.046	0.034	0.032	0.455	2.627	0.394	0.037	0.037	0.045	0.017	0.029	0.010	
16	0.046	0.034	0.031	0.333	2.699	0.418	0.035	0.028	0.041	0.019	0.043	0.011	
17	0.046	0.035	0.035	0.286	2.546	0.372	0.044	0.027	0.026	0.018	0.028	0.011	
18	0.045	0.035	0.037	0.262	2.203	0.345	0.054	0.031	0.025	0.017	0.026	0.011	
19	0.045	0.035	0.034	0.279	1.505	0.323	0.041	0.026	0.022	0.018	0.023	0.011	
20	0.045	0.035	0.034	0.567	1.654	0.297	0.039	0.017	0.020	0.020	0.022	0.010	
21	0.045	0.035	0.034	0.605	1.477	0.277	0.034	0.013	0.019	0.021	0.024	0.008	
22	0.045	0.034	0.034	0.476	1.319	0.240	0.030	0.027	0.019	0.022	0.022	0.008	
23	0.045	0.034	0.034	0.426	1.334	0.216	0.026	0.024	0.019	0.020	0.018	0.008	
24	0.044	0.034	0.034	0.792	1.280	0.197	0.054	0.020	0.019	0.020	0.020	0.008	
25	0.042	0.034	0.034	0.832	1.176	0.172	0.027	0.017	0.019	0.021	0.017	0.008	
26	0.040	0.033	0.034	0.503	1.085	0.161	0.023	0.017	0.018	0.025	0.007	0.008	
27	0.039	0.033	0.034	0.418	1.052	0.139	0.021	0.016	0.017	0.026	0.004	0.007	
28	0.041	0.033	0.033	0.412	1.058	0.121	0.020	0.013	0.017	0.027	0.003	0.007	
29	0.041	0.033	0.032	0.602	0.889	0.107	0.022	0.012	0.017	0.029	0.003	0.008	
30	0.040	0.035	0.035	0.964	0.822	0.099	0.022	0.011	0.017	0.030	0.003	0.008	
31	0.041	0.048	0.048	0.844	0.844	0.029	0.029	0.011	0.011	0.029	0.003	0.008	
MEAN	0.0464	0.0355	0.0342	0.4250	1.8438	0.4072	0.0466	0.0236	0.0190	0.0213	0.0216	0.0081	
INCHES	0.342	0.245	0.253	3.035	13.605	2.907	0.344	0.174	0.135	0.157	0.154	0.060	
STA AV	0.397	0.304	0.621	2.459	10.782	5.305	0.620	0.106	0.071	0.145	0.239	0.228	

NOTES: To convert CFS to IN/DAY, multiply by 0.238017. STA AV values are based on 11 yr (1966-76) record period.

1976 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 13 - 14, 1976										
5-13		0.146					5-13	755	2.147	0.0
								920	2.198	0.0242
								1035	2.484	0.0473
								1205	3.041	0.0799
								1305	3.583	0.1059
WATERSHED CONDITIONS: The event is strictly snowmelt.								1430	4.169	0.1492
								1650	4.593	0.2296
								1905	4.237	0.3078
								2100	3.683	0.3675
								2245	3.298	0.4156
							5-14	2400	3.154	0.4474
								300	2.870	0.5185
								830	2.590	0.6367

NOTES: To convert CFS to IN/HR, multiply by 0.009917.



REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)

LOCATION: Owyhee County, Idaho; 40 miles south of Nampa, Idaho; a tributary to Reynolds Creek, a tributary to the Snake River. Lat. 43 deg. 3 min. 53 sec. N.; Long. 116 deg. 44 min. 14 sec. W.

AREA: 33.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	0.85	1.77	0.96	1.16	0.58	1.21	0.85	0.83	1.46	0.31	0.08	0.18	10.28					
	Q	0.003	0.167	0.329	0.055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.554					
STA AV	P	1.72	0.87	1.51	1.19	0.68	1.30	0.41	0.69	0.82	1.33	1.25	1.37	13.13					
	Q	0.123	0.100	0.134	0.022	0.0	0.001	0.0	0.0	0.0	0.0	0.001	0.001	0.380					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		3-17	0.009	3-17	0.008	3-17	0.016	3-17	0.042	3-17	0.065	3-16	0.086	2-26	0.137	3-10	0.219		
MAXIMUMS FOR PERIOD OF RECORD																			
		1-22	0.063	1-22	0.053	1-22	0.097	1-22	0.205	1-22	0.291	1-22	0.328	1-20	0.379	1-18	0.518		
		1972		1972		1972		1972		1972		1972		1972		1972			

NOTES: Watershed conditions: Watershed is entirely sagebrush rangeland used almost exclusively for cattle grazing. Vegetation consists of bluebunch wheatgrass, Sandberg bluegrass, cheatgrass, yarrow, and little sagebrush. 90% of the area has a vegetative cover of 0-25% and 10% of the area has a vegetative cover of 26-50%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1252, p. 68.014-6. Records began: Precipitation-1963; Runoff-1967. Precipitation: 'Computed Actual' amounts from rain gauge 127X07. Station average precipitation values are based on 1968-76 record period. Station average runoff values are based on 1967-76 record period. For longtime precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

1976 DAILY AIR TEMPERATURE (degrees F)						REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min
1	19 8	43 27	25 10	32 20	55 45	67 38	61 40	69 55	85 63	71 50	58 46	43 33	
2	27 15	45 31	22 10	39 20	59 43	55 35	70 47	72 52	75 39	55 38	66 46	46 33	
3	29 19	45 19	21 9	51 31	53 39	55 34	84 58	68 52	73 56	51 35	56 43	46 33	
4	33 25	19 5	20 9	56 37	54 37	55 33	77 61	64 49	82 60	50 32	58 45	39 29	
5	33 24	10 2	27 14	60 40	53 37	64 43	86 60	68 48	84 65	60 40	60 48	36 23	
6	24 19	24 4	30 17	48 33	52 33	68 52	87 66	68 48	68 39	57 41	58 47	43 27	
7	34 21	32 17	33 20	53 35	60 40	70 50	81 63	58 44	55 33	63 43	60 42	50 33	
8	35 33	43 27	35 21	56 34	64 49	67 48	83 61	61 44	60 39	67 50	58 46	50 33	
9	34 18	37 21	42 25	49 30	63 48	65 46	82 60	65 48	69 43	72 55	52 43	32 22	
10	31 13	36 20	46 26	56 36	68 39	49 40	81 58	71 54	69 43	70 52	54 40	34 22	
11	34 26	45 34	26 19	48 35	55 32	58 39	81 57	75 57	77 56	60 44	49 37	41 29	
12	29 17	46 34	36 16	45 33	62 36	53 39	71 52	74 55	56 44	62 44	45 35	38 28	
13	33 28	51 32	39 33	44 27	79 51	48 32	72 49	78 56	61 44	67 50	45 31	47 31	
14	39 32	34 25	35 27	45 27	61 37	57 33	76 55	60 47	62 48	66 50	43 34	43 33	
15	46 38	30 26	41 23	44 21	57 31	70 45	83 57	53 40	58 47	60 46	45 37	43 31	
16	46 37	36 28	45 36	37 20	68 44	61 45	90 65	54 40	54 44	63 45	56 44	43 30	
17	42 26	37 24	53 40	45 24	60 42	63 44	74 65	59 40	50 44	51 34	62 46	42 31	
18	35 25	33 24	47 25	45 29	59 41	70 47	67 61	54 46	55 45	46 31	54 42	46 32	
19	33 22	29 21	28 20	45 27	66 36	78 60	76 54	65 44	57 47	50 30	47 36	35 27	
20	30 22	27 20	38 20	53 33	56 30	73 55	78 60	80 54	70 46	52 35	45 35	35 23	
21	31 21	31 20	47 28	45 24	64 41	61 46	75 59	84 63	63 50	56 42	45 35	39 27	
22	37 22	39 19	51 31	44 31	67 51	64 40	81 61	79 51	64 49	60 42	48 37	37 30	
23	35 25	44 28	39 25	52 27	70 49	63 38	87 65	66 51	63 48	49 37	47 35	37 25	
24	29 21	40 29	47 27	59 33	67 45	68 40	71 55	73 51	63 49	58 38	55 39	33 17	
25	32 21	41 34	33 23	34 24	59 39	61 35	79 56	77 43	63 49	38 36	44 23	47 31	
26	42 31	47 37	44 26	32 23	66 39	63 32	87 62	60 35	66 49	46 34	25 11	51 35	
27	50 39	45 33	33 21	41 29	76 43	76 49	78 60	66 43	68 53	48 32	21 9	39 29	
28	44 33	38 22	31 24	45 29	53 34	86 59	80 58	75 52	69 50	53 38	31 15	39 28	
29	44 33	35 21	38 22	52 34	61 34	87 69	75 63	82 61	70 55	49 41	41 23	37 28	
30	45 31		52 31	58 36	58 45	78 51	80 58	80 60	71 54	54 39	49 34	34 23	
31	43 31		52 31		58 39		76 57	80 67		55 46		28 19	
AV.	35 25	37 24	37 23	47 29	62 40	65 44	78 58	69 50	66 49	57 41	49 36	40 28	
MEAN	30.4	30.2	30.1	38.4	51.0	54.5	68.3	59.5	57.6	48.9	42.7	34.4	
STA AV	33 23	39 27	42 28	47 31	61 41	69 49	81 60	73 57	67 49	53 37	42 30	34 23	

NOTES: Temperature data taken from hygrothermograph record at Station 127X07. STA AV values are based on 10 yr (1967-76) record period.

1976	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.03	0.0	0.05	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.10	0.0	0.0	
3	0.03	0.0	0.0	0.0	0.04	0.0	0.0	0.03	0.0	0.0	0.0	0.0	
4	0.13	0.03	0.0	0.0	0.01	0.0	0.0	0.04	0.0	0.0	0.0	0.04	
5	0.11	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.03	0.0	0.0	0.02	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	
7	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.03	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.01	
9	0.32	0.02	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.13	
10	0.0	0.0	0.05	0.0	0.01	0.71	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.16	0.0	0.0	0.03	0.06	0.19	0.0	0.0	0.56	0.0	0.0	0.0	
12	0.05	0.0	0.0	0.02	0.0	0.10	0.03	0.13	0.0	0.0	0.0	0.0	
13	0.0	0.03	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.08	0.18	0.0	0.0	0.0	0.0	0.01	0.01	0.0	0.04	0.0	
15	0.0	0.03	0.0	0.19	0.0	0.01	0.0	0.05	0.69	0.0	0.03	0.0	
16	0.0	0.18	0.0	0.0	0.0	0.02	0.03	0.0	0.18	0.0	0.01	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.03	0.02	0.0	0.0	0.0	
18	0.0	0.03	0.08	0.11	0.0	0.0	0.16	0.02	0.0	0.0	0.0	0.0	
19	0.0	0.29	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.02	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.03	0.38	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.02	0.16	0.04	0.0	0.0	0.07	0.0	0.0	0.15	0.0	0.0	
25	0.01	0.03	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	
26	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.03	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.37	0.16	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.66	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.01	0.0	0.14	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.13	0.0	0.21	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.89	1.77	0.96	1.16	0.58	1.21	0.85	0.83	1.46	0.31	0.08	0.18	
STA AV	1.77	0.87	1.51	1.19	0.68	1.30	0.41	0.69	0.82	1.33	1.25	1.37	

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) 127X07. 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 9 yr (1968-76) record period.

1976	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.03	0.0	0.05	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.09	0.0	0.0	
3	0.01	0.0	0.0	0.0	0.04	0.0	0.0	0.03	0.0	0.0	0.0	0.0	
4	0.05	0.03	0.0	0.0	0.01	0.0	0.0	0.04	0.0	0.0	0.0	0.04	
5	0.04	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	
7	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.03	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.01	
9	0.12	0.02	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.07	
10	0.0	0.0	0.03	0.0	0.01	0.68	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.06	0.0	0.0	0.03	0.06	0.18	0.0	0.0	0.56	0.0	0.0	0.0	
12	0.02	0.0	0.0	0.02	0.0	0.10	0.03	0.13	0.0	0.0	0.0	0.0	
13	0.0	0.03	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.08	0.10	0.0	0.0	0.0	0.0	0.01	0.01	0.0	0.04	0.0	
15	0.0	0.03	0.0	0.08	0.0	0.01	0.0	0.05	0.69	0.0	0.03	0.0	
16	0.0	0.18	0.0	0.0	0.0	0.02	0.03	0.0	0.18	0.0	0.01	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.03	0.02	0.0	0.0	0.0	
18	0.0	0.01	0.05	0.04	0.0	0.0	0.16	0.02	0.0	0.0	0.0	0.0	
19	0.0	0.09	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.01	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.02	0.19	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.01	0.07	0.02	0.0	0.0	0.05	0.0	0.0	0.13	0.0	0.0	
25	0.01	0.02	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	
26	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.01	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.25	0.06	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.46	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.01	0.0	0.14	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.13	0.0	0.21	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.34	1.21	0.50	0.60	0.58	1.16	0.81	0.83	1.46	0.28	0.08	0.12	
STA AV													

NOTES: Values are amounts from unshielded recording gage 127407. STA AV values do not apply to unshielded rain gage records.

1976 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.03	0.0	0.05	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.09	0.0	0.0
3	0.02	0.0	0.0	0.0	0.04	0.0	0.0	0.03	0.0	0.0	0.0	0.0
4	0.09	0.03	0.0	0.0	0.01	0.0	0.0	0.04	0.0	0.0	0.0	0.04
5	0.04	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0
7	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.03	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.01
9	0.21	0.02	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.10
10	0.0	0.0	0.04	0.0	0.01	0.69	0.0	0.0	0.0	0.0	0.0	0.0
11	0.11	0.0	0.0	0.03	0.06	0.18	0.0	0.0	0.56	0.0	0.0	0.0
12	0.04	0.0	0.0	0.02	0.0	0.10	0.03	0.13	0.0	0.0	0.0	0.0
13	0.0	0.03	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.08	0.13	0.0	0.0	0.0	0.0	0.01	0.01	0.0	0.04	0.0
15	0.0	0.03	0.0	0.13	0.0	0.01	0.0	0.05	0.69	0.0	0.03	0.0
16	0.0	0.18	0.0	0.0	0.0	0.02	0.03	0.0	0.18	0.0	0.01	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.03	0.02	0.0	0.0	0.0
18	0.0	0.02	0.06	0.07	0.0	0.0	0.16	0.02	0.0	0.0	0.0	0.0
19	0.0	0.18	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.01	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.02	0.29	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.01	0.10	0.04	0.0	0.0	0.05	0.0	0.0	0.14	0.0	0.0
25	0.01	0.02	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
26	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.02	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.30	0.10	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.56	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.01	0.0	0.14	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.13	0.0	0.21	0.0	0.0	0.0	0.0	0.0
TOTAL	0.63	1.46	0.66	0.88	0.58	1.18	0.83	0.83	1.46	0.29	0.08	0.15
STA AV												

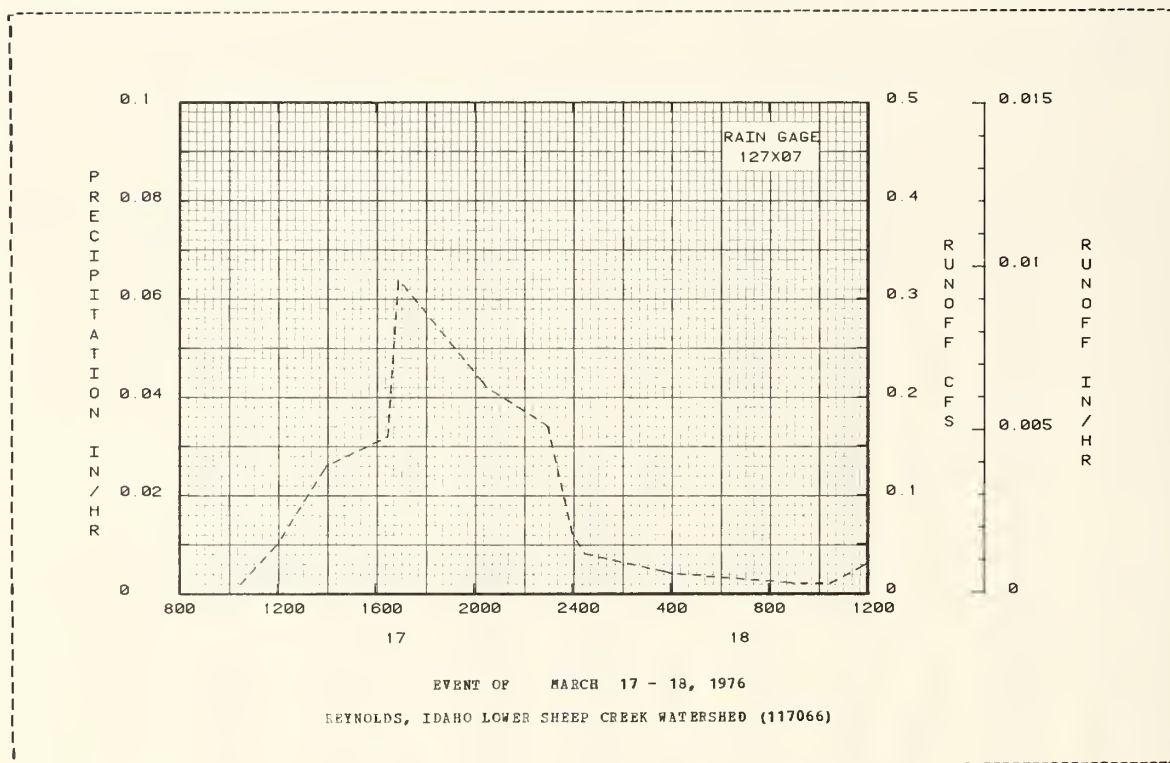
NOTES: Values are amounts from shielded recording gage 127507. STA AV values do not apply to shielded rain gage records.

1976 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.003	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.001	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0 T	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.044	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.003	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0 T	0.006	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.004	0.002	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0 T	0.0 T	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.118	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.036	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.043	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.070	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.091	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.011	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0001	0.0180	0.0147	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.003	0.167	0.329	0.055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.123	0.100	0.134	0.022	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.001

NOTES: To convert CFS to IN/DAY, multiply by 0.721262. STA AV values are based on 10 yr (1967-76) record period.

1976			REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)								
SELECTED RUNOFF EVENT											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 17 - 18, 1976											
RG 127X07			RG 127X07								
3-18	0.0		3-18	1752	0.0	0.0	3-17	1030	0.012	0.0	
3-17		0.019						1200	0.045	0.0013	
								1400	0.129	0.0065	
								1630	0.156	0.0172	
								1655	0.316	0.0202	
WATERSHED CONDITIONS: The event is snowmelt runoff without rain.								2030	0.209	0.0434	
								2300	0.166	0.0625	
								2400	0.063	0.0660	
								30	0.038	0.0667	
								400	0.015	0.0695	
								900	0.010	0.0714	
								1030	0.008	0.0718	

NOTES: To convert CFS to IN/DAY, multiply by 0.030053.



CHICKASHA, OKLAHOMA WATERSHED 100 AT ANADARKO

LOCATION: Washita River above Anadarko, Okla.; Southwest Central Oklahoma and Texas Panhandle; in Caddo, Kiowa, Washita, Custer, Beckham, and Picher Mills Counties, Okla.; and Hemphill, Wheeler, and Gray Counties, Tex.; Washita River, Red River Basin. GAGING STATION--NW1/4 sec. 15, T. 7 N., R. 10 W., lat. 35 deg. 05 min. N., long. 98 deg. 14 min. W.; North edge of Anadarko, Okla., 35 feet upstream from U.S. Highway 281 bridge over Washita River; at river mile 305.2, approximately 8.1 miles upstream from confluence of Sugar Creek.

AREA: 2339800.00 acres 3656.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED 100 AT ANADARKO											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	Q	0.060	0.356	0.050	0.136	0.133	0.092	0.027	0.016	0.056	0.024	0.029	0.028	0.676			
STA AV	Q	0.048	0.346	0.063	0.087	0.139	0.140	0.068	0.060	0.103	0.077	0.088	0.048	0.965			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	Maximum Volume for Selected Time Interval 6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.
1976		9-15	0.001	6- 5	0.001	6- 5	0.001	6- 5	0.004	6- 5	0.007	5-28	0.013	5-28	0.023	4-16	0.065
MAXIMUMS FOR PERIOD OF RECORD																	
		9-23 1965	0.004	9-23 1965	0.004	9-23 1965	0.009	9-23 1965	0.026	9-23 1965	0.052	9-23 1965	0.100	9-23 1965	0.188	9-23 1965	0.384

NOTES: Watershed conditions not applicable. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.7-21. Since this is the inflow station to a study reach, precipitation data are not applicable. Runoff records began Oct. 1961. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976 MEAN DAILY DISCHARGE (cfs)														CHICKASHA, OKLAHOMA WATERSHED 100 AT ANADARKO	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	206.6	178.9	149.8	134.7	453.6	549.0	131.7	51.4	47.6	91.1	140.6	91.1			
2	203.0	185.6	146.7	128.3	474.1	453.6	128.8	49.4	47.6	88.6	159.2	88.6			
3	199.5	199.5	152.9	128.8	399.4	428.6	123.1	45.7	47.6	86.2	125.9	88.6			
4	192.5	199.5	156.1	128.8	343.7	540.1	120.3	61.4	45.7	81.4	109.3	91.1			
5	199.1	196.0	149.8	128.8	296.0	706.9	117.5	67.8	43.9	81.4	98.7	93.6			
6	185.6	192.5	146.7	128.8	317.3	652.3	114.7	70.0	43.9	76.8	93.6	93.6			
7	162.2	189.1	146.7	143.7	348.2	617.0	106.6	63.5	42.1	74.5	88.6	93.6			
8	168.9	182.2	156.2	140.6	334.6	406.6	103.9	72.2	42.1	76.8	86.2	93.6			
9	168.9	182.2	173.9	137.6	330.4	247.6	101.3	108.2	66.1	76.8	83.8	91.1			
10	175.5	176.9	175.5	128.8	313.0	232.3	96.1	112.0	193.1	76.8	83.8	88.6			
11	196.0	178.9	185.6	125.9	452.4	217.4	93.6	81.4	225.6	76.8	86.2	88.6			
12	210.2	162.2	196.0	125.9	754.4	206.6	93.6	65.6	104.9	79.1	81.4	86.2			
13	210.2	182.2	189.1	125.9	579.0	196.0	93.6	55.3	134.3	76.8	83.8	83.8			
14	203.0	189.1	139.1	125.9	656.7	189.1	91.1	51.4	366.3	74.5	86.2	86.2			
15	196.0	165.6	189.1	149.8	496.5	182.2	86.2	47.6	1081.5	72.2	86.2	83.8			
16	192.5	182.2	169.9	247.6	346.4	172.2	86.2	43.9	693.4	72.2	86.2	86.2			
17	192.5	178.9	159.2	540.8	287.6	168.9	93.6	38.7	338.1	70.0	86.2	86.2			
18	192.5	175.5	156.1	947.6	247.6	165.7	83.8	37.0	255.4	67.8	88.6	83.8			
19	192.5	203.0	156.1	971.4	224.8	156.1	79.1	37.0	182.2	67.8	88.6	83.8			
20	192.5	259.3	156.1	929.6	206.6	183.1	86.2	40.4	149.8	67.8	91.1	81.4			
21	185.6	251.4	156.1	891.2	192.5	424.2	83.8	33.7	148.9	67.8	93.6	81.4			
22	185.6	247.6	156.1	1066.1	182.2	244.9	70.0	27.6	248.8	67.8	93.6	83.8			
23	199.1	243.7	156.1	581.6	182.2	185.6	63.5	26.2	225.7	70.0	96.1	86.2			
24	169.1	206.6	152.9	430.9	185.6	248.0	55.3	24.8	140.6	70.0	96.1	83.8			
25	169.1	146.7	146.7	348.2	358.1	245.1	53.3	24.8	101.3	67.8	98.7	86.2			
26	185.6	143.7	149.8	291.8	308.9	354.3	49.4	26.2	83.8	67.8	98.7	88.6			
27	162.2	140.6	146.7	259.3	309.1	261.3	47.6	29.1	96.1	70.0	96.1	91.1			
28	182.2	140.6	143.7	259.3	873.4	178.9	45.7	32.1	98.7	72.2	93.6	96.1			
29	182.2	143.7	143.7	271.3	1236.7	146.7	45.7	33.7	93.6	86.2	93.6	96.1			
30	178.9		140.6	359.8	809.2	131.7	43.9	38.7	93.6	101.3	93.6	96.1			
31	178.9		137.6		554.5		43.9	42.1		106.6		88.6			
MEAN	189.62	168.48	159.28	345.99	421.13	303.06	84.94	49.64	182.75	76.86	96.28	88.46			
INCRS	0.050	0.056	0.050	0.106	0.133	0.092	0.027	0.016	0.056	0.024	0.029	0.028			
STA AV	0.048	0.346	0.063	0.087	0.139	0.140	0.068	0.060	0.103	0.077	0.088	0.048			

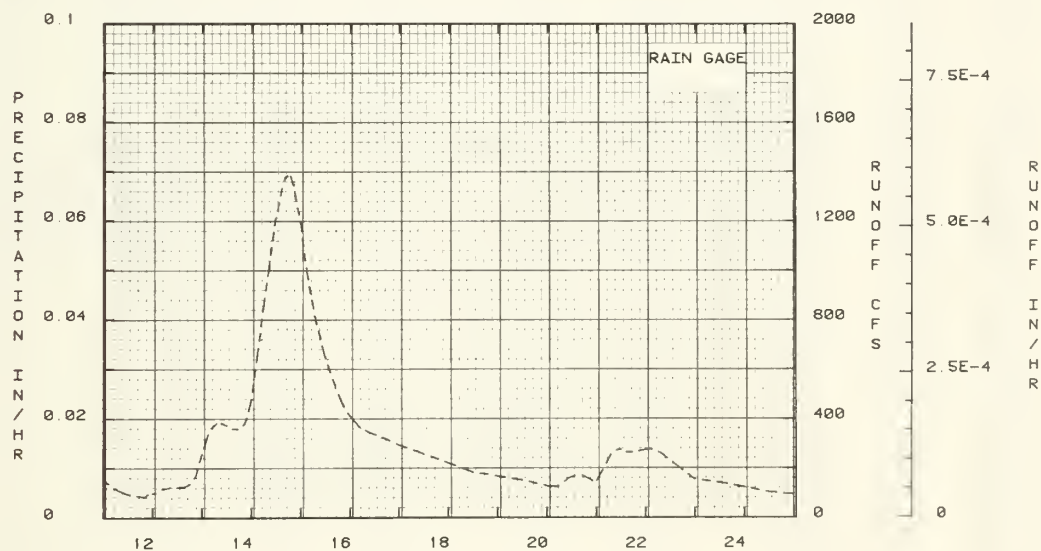
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. To convert discharge in CFS to IN/DAY, multiply by 0.00001017. To convert discharge in inches to AC-FT, multiply by 194.983. STA AV values are based on 16 yr (1961-76) record period.

1976 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 100 AT ANADARKO								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 9 - 30, 1976											
9- 9		0.000					9- 9	400	63.560	0.0	
								700	63.460	0.0001	
								1430	55.260	0.0003	
								1930	55.330	0.0004	
								2100	66.280	0.0004	
WATERSHED CONDITIONS: Not applicable.								2230	113.810	0.0005	
								2400	177.830	0.0006	
						9-10	200	234.020	0.0007		
							330	251.980	0.0009		
							500	251.180	0.0011		
							700	239.010	0.0013		
							1200	178.210	0.0017		
							1741	134.340	0.0021		
							1900	135.090	0.0022		
							2100	160.360	0.0023		
							2400	230.030	0.0025		
						9-11	230	264.148	0.0028		
							430	275.570	0.0030		
							700	275.090	0.0033		
							830	262.580	0.0035		
							1530	206.060	0.0042		
							2400	152.560	0.0048		
						9-12	730	109.020	0.0053		
							1300	91.030	0.0055		
							2000	83.820	0.0058		
				2200	96.330	0.0058					
				2400	98.740	0.0059					
			9-13	130	98.870	0.0060					
				430	114.880	0.0061					
				830	123.130	0.0063					
				1500	123.150	0.0067					
				1800	135.070	0.0068					
				2100	166.880	0.0070					
				2400	257.700	0.0073					
			9-14	300	336.979	0.0077					
				500	367.610	0.0080					
				700	380.740	0.0083					
				930	380.229	0.0087					
				1200	370.668	0.0091					
				1500	357.030	0.0095					
				1700	357.620	0.0098					
				2030	376.590	0.0104					
				2200	402.229	0.0106					
				2400	479.560	0.0110					
			9-15	300	654.808	0.0117					
				600	858.638	0.0127					
				900	1033.798	0.0139					
				1200	1214.489	0.0153					
				1500	1332.408	0.0169					
				1630	1378.908	0.0178					
				1730	1383.108	0.0184					
				1900	1380.110	0.0193					
				2030	1341.520	0.0201					
				2400	1186.518	0.0220					
			9-16	300	992.138	0.0234					
				700	809.278	0.0249					
				1200	642.500	0.0265					
				1700	524.469	0.0277					
				2100	446.740	0.0285					
				2400	407.860	0.0291					
			9-17	430	365.750	0.0298					
				900	343.350	0.0305					
				1600	321.310	0.0315					
				2400	291.628	0.0325					
			9-18	1200	255.370	0.0339					
				2400	218.800	0.0365					
			9-19	1200	182.230	0.0375					
				2400	166.025	0.0394					
			9-20	1200	149.820	0.0402					
				2400	125.940	0.0417					
			9-21	530	126.100	0.0420					
				1030	159.590	0.0423					
				1330	169.020	0.0425					
				1700	168.750	0.0427					
				2200	146.550	0.0431					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000004239. No precipitation record is shown because all of the watershed lies outside of the area in which precipitation is measured.

1976	SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 100 AT ANADARKO									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF SEPTEMBER 9 - 30, 1976 (CONTINUED)													
							9-21	2400	147.250	0.0432			
							9-22	300	193.560	0.0434			
								700	256.300	0.0438			
								1030	275.688	0.0442			
								1200	275.090	0.0444			
								1430	263.080	0.0447			
								1700	263.378	0.0449			
								2400	275.448	0.0457			
							9-23	300	275.158	0.0461			
								730	258.850	0.0466			
								1500	209.690	0.0473			
								2400	152.810	0.0480			
							9-24	1200	140.650	0.0488			
								2400	120.975	0.0502			
							9-25	1200	101.300	0.0508			
								2400	92.550	0.0518			
							9-26	1200	83.800	0.0523			
								2400	89.975	0.0531			
							9-27	1200	96.150	0.0536			
								2400	97.430	0.0546			
							9-28	1200	98.710	0.0551			
								2400	96.165	0.0561			
							9-29	1200	93.620	0.0565			
								2400	93.620	0.0575			
							9-30	1200	93.620	0.0580			
								2400	92.370	0.0589			

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0000004239. No precipitation record is shown because all of the watershed lies outside of the area in which precipitation is measured.



EVENT OF SEPTEMBER 9 - 30, 1976
CHICKASHA, OKLAHOMA WATERSHED 100 AT ANADARKO

CHICKASHA, OKLAHOMA WATERSHED 500 NEAR CHICKASHA

LOCATION: Washita River watershed above Chickasha, Okla.; Southwest Central Oklahoma and Texas Panhandle; in Grady, Caddo, Canadian, Kiowa, Washita, Custer, Beckham, and Roger Mills Counties, Okla.; and Bempfill, Wheeler, and Gray Counties, Tex.; Washita River, Red River Basin. GAGING STATION--SE1/4 sec. 23, T. 7 N., R. 7 W., lat. 35 deg. 05 min. N.; long. 97 deg. 54 min. W.; 1 mile Northeast of Chickasha, Okla., at R. E. Bailey Turupike bridge over Washita River at river mile 256.5, approximately 1.3 miles downstream from confluence of Line Creek.

AREA: 2768000.00 acres 4325.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CRICKASHA, OKLAHOMA WATERSHED 500 NEAR CRICKASHA											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.0	0.24	2.32	5.64	2.80	2.31	1.35	2.24	2.99	2.58	0.04	0.22	22.73			
	Q	0.060	0.058	0.057	0.117	0.130	0.096	0.028	0.018	0.049	0.024	0.028	0.028	0.692			
STA AV	P	0.63	1.08	1.84	2.95	4.01	3.07	2.18	2.73	3.69	2.34	1.77	0.91	27.42			
	Q	0.044	0.044	0.065	0.095	0.148	0.120	0.063	0.061	0.085	0.068	0.077	0.046	0.916			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1976		4-19	0.001	4-19	0.001	4-19	0.001	4-19	0.004	4-19	0.007	4-19	0.013	4-19	0.024	4-17	0.069
MAXIMUMS FOR PERIOD OF RECORD																	
		4-12	0.003	8- 1	0.003	8- 1	0.006	8- 1	0.019	8- 1	0.038	8- 1	0.057	5- 6	0.102	5- 5	0.329
		1967		1975		1975		1975		1975		1975		1969		1969	

NOTES: Watershed conditions: For area not included above subwatersheds as determined from a revised 1974 survey; sowed crop - 35%; row crop - 4%; alfalfa - 5%; pasture and range - 47%; and miscellaneous - 9%. For map of watershed see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.7-21, (Composite). Watershed 200 was discontinued in Dec. 31, 1974. Prior to this time precipitation data obtained from a Thiessen weighted average of 40 gages for the reach between Verden (200) and Chickasha (500). Precipitation data after Dec. 31, 1974 obtained from an arithmetic average of 96 gages for the reach between Anadarko (100) and Chickasha (500). Precipitation records began Oct. 1961; runoff records began Jan. 1964. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED 500 NEAR CHICKASHA	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0 T	0.09	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.58	0.0	0.0	0.0	0.13	0.0	0.0	0.07	0.0	0.0		
4	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.53	0.0	0.06	0.0	0.0		
5	0.0	0.23	0.0	0.0	0.21	0.0 T	0.0	1.17	0.0	0.25	0.0	0.18		
6	0.0	0.0	0.0	0.0 T	0.01	0.13	0.0	0.04	0.0 T	0.0	0.0	0.04		
7	0.0	0.0	0.54	0.87	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0		
8	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0	0.74	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0		
10	0.0	0.01	0.0	0.0	0.0 T	0.0	0.02	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0 T	0.20	0.0 T	0.0	0.0	0.06	0.0	0.0	0.0	0.02	0.0		
12	0.0	0.0	0.0	0.02	0.19	0.0	0.0 T	0.0	1.15	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.73	0.04	0.02	0.84	0.0	0.02	0.0		
14	0.0	0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.07	0.0	0.0 T	0.0		
15	0.0	0.0	0.0	1.38	0.0	0.0 T	0.84	0.0	0.0	0.16	0.0	0.0		
16	0.0	0.0	0.0	0.14	0.0	0.0	0.03	0.0	0.0 T	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.89	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0 T	0.0	0.21	0.0	0.0	0.0	0.04	0.0	0.0		
19	0.0	0.0	0.0	1.10	0.0	0.0	0.0	0.0	0.02	0.0 T	0.0	0.0		
20	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.57	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.07	0.58	0.0	0.09	0.0	0.05	0.0	0.0		
24	0.0	0.0	0.0 T	0.0	0.0	0.65	0.0	0.10	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.63	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0 T	0.08	0.0	0.0		
27	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.03	0.08	0.07	0.0	0.0		
28	0.0	0.0	0.02	0.99	0.0	0.0	0.20	0.01	0.0	0.02	0.0 T	0.0		
29	0.0	0.0	0.17	0.0	0.0 T	0.0	0.0	0.14	0.0	1.44	0.0	0.0		
30	0.0	0.0	0.0	0.18	0.22	0.01	0.0	0.03	0.0	0.02	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.08	0.0	0.0	0.0	0.0		
TOTAL	0.0	0.24	2.32	5.64	2.80	2.31	1.35	2.24	2.99	2.58	0.04	0.22		
STA AV	0.83	1.08	1.84	2.95	4.01	3.07	2.18	2.73	3.69	2.34	1.77	0.91		

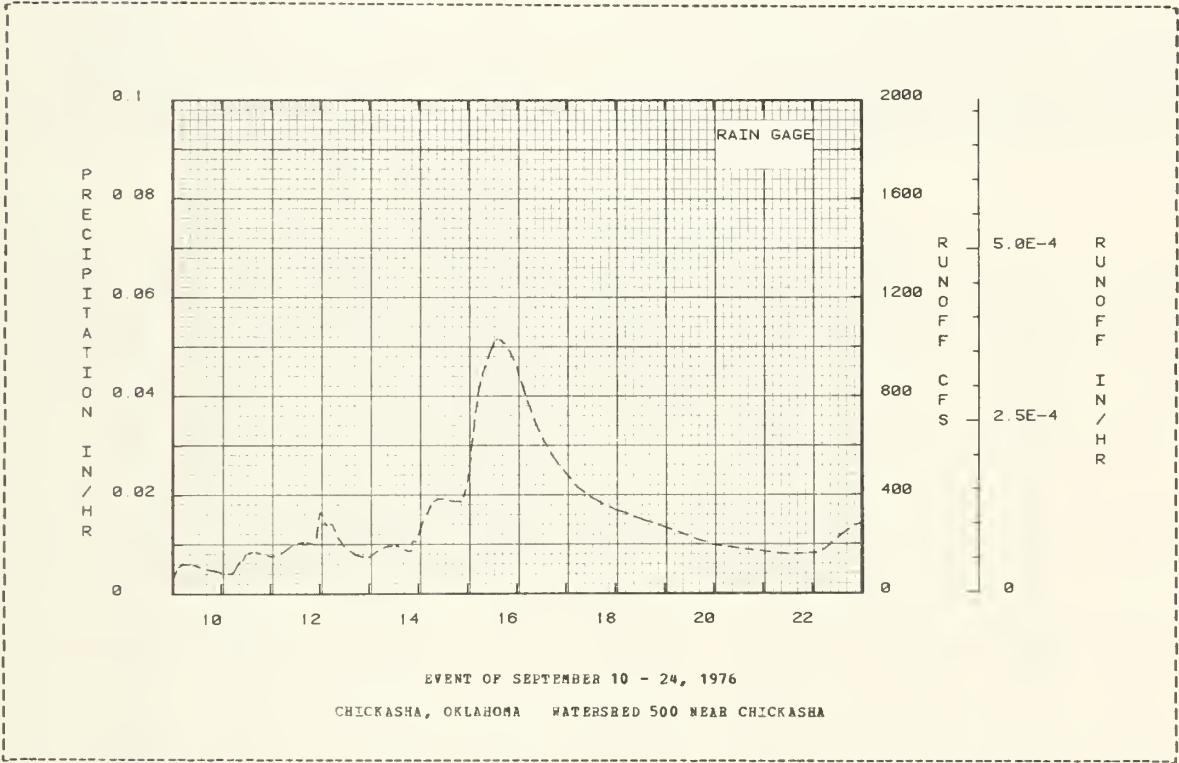
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Daily precipitation values arithmetic average of 96 rain gages on the watershed. STA AV values are based on 16 yr (1961-76) record period.

1976	SELECTED RUNOFF EVENT			CRICKASHA, OKLAHOMA			WATERSHED 500 NEAR CHICKASHA			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 10 - 24, 1976 (CONTINUED)										
							9-13	30	329.540	0.0037
								100	325.340	0.0038
								111	315.418	0.0038
								230	282.070	0.0040
								318	278.138	0.0040
								600	281.250	0.0043
								900	225.030	0.0046
								1200	189.660	0.0048
								1730	155.930	0.0051
								2100	147.230	0.0053
								2400	147.880	0.0055
							9-14	400	170.900	0.0057
								800	188.790	0.0060
								1100	194.100	0.0062
								1330	193.720	0.0064
								1430	188.910	0.0064
								1841	171.000	0.0067
								2018	173.880	0.0068
								2100	211.260	0.0069
								2241	210.010	0.0070
								2400	239.610	0.0071
							9-15	230	295.729	0.0073
								600	355.648	0.0077
								730	373.820	0.0079
								900	381.780	0.0081
								1000	384.418	0.0083
								1200	383.620	0.0086
								1700	370.969	0.0092
								2030	372.188	0.0097
								2200	393.138	0.0099
								2400	454.938	0.0102
							9-16	100	519.148	0.0104
								200	598.499	0.0106
								300	674.050	0.0108
								400	746.358	0.0111
								530	825.358	0.0115
								730	895.198	0.0121
								1030	970.418	0.0131
								1300	1019.378	0.0140
								1400	1027.078	0.0144
								1430	1031.528	0.0145
								1530	1027.119	0.0149
								1800	1011.309	0.0158
								2100	969.878	0.0169
								2400	913.708	0.0179
							9-17	300	833.708	0.0188
								600	760.868	0.0197
								930	682.148	0.0206
								1300	621.850	0.0214
								1800	548.729	0.0225
								2400	486.350	0.0236
							9-18	600	426.688	0.0246
								1200	389.990	0.0254
								1800	361.250	0.0262
								2400	338.469	0.0270
							9-19	600	321.178	0.0277
								1200	300.860	0.0284
								1800	285.938	0.0290
								2400	267.979	0.0296
							9-20	800	244.190	0.0303
								1630	215.320	0.0310
								2400	196.620	0.0316
							9-21	1200	181.180	0.0324
								2400	169.570	0.0339
							9-22	1200	157.960	0.0346
								2400	163.320	0.0360
							9-23	148	163.660	0.0361
								600	177.810	0.0364
								941	205.300	0.0366
								1500	242.940	0.0371
								2100	276.110	0.0376
								2400	285.388	0.0379
							9-24	330	290.030	0.0383
								600	289.580	0.0385
								900	282.540	0.0388

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00000038583. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.

1976 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 500 NEAR CHICKASHA							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 10 - 24, 1976 (CONTINUED)										
				9-24				1400	262.678	0.0393
								1930	226.550	0.0398
								2400	191.440	0.0402

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000038563. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.



CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX

LOCATION: Washita River Watershed above Alex, Okla.; Southwest Central Oklahoma and Texas Panhandle; in Grady, Caddo, Canadian, Kiowa, Washita, Custer, Beckham and Roger Mills Counties, Okla.; and Hemphill, Wheeler, and Gray Counties, Tex.; Washita River, Red River Basin. GAGING STATION--NW1/4 sec. 7, T. 5 N., R. 5 W., lat. 34 deg. 55 min. N., long. 97 deg. 46 min. W., 1 mile north of Alex, Okla.; at county road bridge over Washita River at river mile 226.5 approximately 3.8 miles downstream from confluence of Winter Creek.

AREA: 3061120.00 acres 4783.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.0	0.29	2.81	4.19	2.57	2.64	2.82	2.36	2.98	2.33	0.08	0.57	23.64			
	Q	0.071	0.364	0.071	0.127	0.132	0.105	0.045	0.021	0.053	0.028	0.033	0.034	0.783			
STA AV	P	1.18	1.30	1.93	2.90	4.49	2.59	2.61	2.77	4.07	2.66	1.69	0.97	29.15			
	Q	0.054	0.352	0.074	0.102	0.155	0.159	0.071	0.060	0.093	0.080	0.092	0.054	1.046			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		4-20	0.001	4-20	0.001	4-20	0.001	4-20	0.004	4-20	0.008	4-19	0.015	4-19	0.027	4-18	0.073
MAXIMUMS FOR PERIOD OF RECORD																	
		5-23	0.003	8- 1	0.003	8- 1	0.006	9-20	0.019	8- 1	0.036	5- 7	0.064	5- 6	0.114	5- 5	0.336
		1975		1975		1975		1962		1975		1969		1969		1969	

NOTES: Watershed conditions: For area not included above subwatersheds as determined from a revised 1974 survey; sowed crop - 21%; row crop - 6%; alfalfa - 5%; pasture and range - 60%; and miscellaneous - 8%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.7-21. Precipitation records began Oct. 1961; runoff records began Sept. 1961. STA AV (P) values are a Thiessen weighted average of 21 gages for 1963-70 on the reach from Tabler to Alex, a Thiessen-weighted average for 77 gages for 1971-75 on the reach for Chickasha to Alex, Okla. and an arithmetic average for 73 gages for 1976 on the reach from Chickasha to Alex, Okla., for a total period of record (1963-76). For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976 DAILY AIR TEMPERATURE (degrees F)												CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	
1	53 34	57 26	84 34	71 29	67 42	82 58	88 66	102 70	77 62	94 39	60 23	50 15	
2	35 22	56 24	83 59	82 45	77 46	86 59	94 70	83 68	85 58	88 50	75 36	60 14	
3	33 17	67 22	67 33	66 49	63 41	82 61	87 74	86 64	88 62	84 59	56 26	65 19	
4	36 12	46 28	65 29	65 43	78 43	83 58	80 64	83 62	93 66	74 50	50 24	56 15	
5	47 19	28 21	41 22	72 38	67 51	80 55	84 63	96 65	94 62	60 38	63 23	46 18	
6	53 13	25 16	52 23	76 45	63 48	76 61	88 60	93 64	90 61	56 34	78 44	44 18	
7	15 7	44 13	45 26	60 52	62 42	80 61	90 54	92 66	88 58	44 35	58 30	42 10	
8	24 5	68 22	42 40	70 50	70 38	83 60	94 61	98 68	86 59	56 27	63 20	46 20	
9	45 11	74 28	58 35	70 48	70 48	87 60	92 65	99 70	71 53	75 30	77 38	61 32	
10	55 36	71 50	66 38	80 46	74 54	92 65	85 66	97 72	74 44	83 34	74 37	58 22	
11	52 24	62 39	63 52	78 56	81 48	90 65	86 63	96 70	81 57	84 44	48 24	31 19	
12	62 24	76 41	53 30	81 50	70 52	90 73	94 61	98 65	86 60	78 44	28 23	55 18	
13	50 26	70 51	44 24	76 56	72 45	91 64	92 64	100 69	71 60	82 39	30 22	51 21	
14	49 20	66 40	62 27	78 62	70 44	87 68	84 65	98 65	85 57	79 39	30 24	58 20	
15	58 27	76 47	54 35	73 52	73 47	79 57	80 67	97 69	86 62	60 47	31 24	57 23	
16	46 33	71 44	58 28	73 45	74 49	89 52	86 62	96 70	87 61	54 30	33 28	68 20	
17	62 22	71 41	69 36	68 52	74 44	92 60	86 62	96 69	82 64	56 19	65 26	71 24	
18	65 29	65 39	71 46	72 48	76 40	73 58	90 66	95 66	80 64	60 34	72 25	64 30	
19	51 25	66 33	87 51	70 56	80 50	80 54	87 68	90 56	76 65	46 20	76 47	58 30	
20	50 18	81 36	68 42	61 48	79 56	83 48	92 70	89 56	74 48	59 16	63 35	34 12	
21	56 24	44 30	64 30	72 42	83 59	84 58	91 68	91 62	84 43	66 21	48 20	39 8	
22	65 19	62 20	67 32	80 55	87 60	90 56	90 66	96 62	82 44	68 38	54 16	50 16	
23	66 31	74 20	76 33	80 64	78 59	88 65	92 66	98 62	88 60	69 58	61 26	56 14	
24	56 28	72 34	72 56	72 50	80 58	79 63	95 63	90 58	87 54	58 36	68 23	58 32	
25	35 25	74 39	87 59	60 44	66 58	86 62	98 64	90 59	80 66	50 30	69 44	46 18	
26	38 12	77 28	68 37	66 41	71 56	90 68	96 64	92 61	71 54	44 27	63 34	66 12	
27	50 10	77 43	70 31	70 53	63 52	92 70	96 68	94 65	66 46	47 31	33 13	70 32	
28	62 28	75 48	62 48	64 50	77 46	69 74	96 66	86 67	62 40	50 27	29 11	48 27	
29	65 24	77 43	60 41	62 48	86 58	99 73	90 66	90 63	72 34	38 34	47 6	54 18	
30	62 32		58 39	60 43	88 60	88 70	95 70	80 66	86 36	52 30	56 8	38 4	
31	52 35		60 33		79 60		98 68	73 62		58 28		21 1	
AV.	50 22	65 33	64 37	71 49	74 50	85 62	90 65	92 65	81 55	64 35	55 26	52 19	
MEAN	36.2	49.0	50.5	59.9	62.2	73.5	77.7	78.7	68.2	49.4	40.7	35.5	
STA AV	46 25	53 28	61 38	72 49	80 57	88 67	94 71	91 68	82 60	72 48	62 36	52 29	

NOTES: Data recorded at South Central Agricultural Research Station. AV and STA AV are rounded to the nearest degree. Mean rounded to the tenth of a degree. STA AV values are based on record period Sept. 1962-1976. For Chickasha Research Station Evaporation Data, see National Weather Service Climatological Data for Oklahoma.

1976 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.04	0.0	0.0	0.0	0.0
2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.3	0.22	0.0	0.0	0.0	0.0 T	0.0	0.0	0.07	0.0	0.0	0.0
4	0.0	0.3	0.0 T	0.0	0.0	0.0	0.0	0.45	0.0	0.22	0.0	0.0	0.0
5	0.0	0.29	0.0	0.0	0.31	0.0	0.0	0.74	0.0	0.08	0.0	0.42	
6	0.0	0.3	0.0	0.0 T	0.0 T	0.12	0.0	0.09	0.0 T	0.0	0.0	0.14	
7	0.0	0.3	1.01	0.33	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	
8	0.0	0.3	1.00	0.0	0.0	0.0	0.0	0.0	0.84	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.02	0.0	0.0	0.0	
10	0.0	0.3	0.0	0.0	0.01	0.0	0.02	0.0	0.0	0.0	0.0	0.01	
11	0.0	0.3	0.18	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.04	0.0	
12	0.0	0.0	0.0	0.01	0.10	0.0	0.0 T	0.0	1.15	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.33	0.07	0.0	0.84	0.0	0.01	0.0	
14	0.0	0.0	0.0	0.0 T	0.0	0.0	0.03	0.0	0.02	0.0	0.02	0.0	
15	0.0	0.3	0.0	0.96	0.0	0.02	1.85	0.0	0.0	0.06	0.0	0.0	
16	0.0	0.0	0.0	0.16	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0 T	0.01	0.0	0.0	0.0	
18	0.0	0.3	0.0	0.01	0.0	0.30	0.0	0.0	0.0	0.04	0.0	0.0	
19	0.0	0.0	0.0	1.27	0.0	0.0	0.0	0.0	0.01	0.02	0.0 T	0.0	
20	0.0	0.3	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	
21	0.0	0.3	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.43	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.13	0.79	0.0	0.16	0.0	0.11	0.0	0.0	
24	0.0	0.0	0.01	0.0	0.0	1.07	0.0	0.18	0.0	0.0 T	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.08	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0 T	0.91	0.0	0.0	0.0	0.0 T	0.06	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.05	0.05	0.05	0.0	0.0	
28	0.0	0.3	0.08	0.91	0.0	0.0	0.62	0.01	0.0	0.03	0.0 T	0.0	
29	0.0	0.0	0.31	0.0	0.06	0.0	0.0 T	0.31	0.0	1.38	0.0	0.0	
30	0.0	0.0	0.9	0.12	0.18	0.0	0.0	0.0 T	0.0	0.02	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.29	0.0	0.0	0.0	0.0	
TOTAL	0.0	0.29	2.61	4.19	2.57	2.64	2.82	2.36	2.96	2.33	0.08	0.57	
STA AV	1.18	1.30	1.93	2.90	4.49	2.59	2.61	2.77	4.07	2.66	1.69	0.97	

NOTES: Precipitation values are a Thiessen weighted average of 21 gages for 1963-70, a Thiessen-weighted average for 77 gages for 1971-75, and an arithmetic average of 73 gages for 1976. STA AV values are based on 14 yr (1963-76) record period.

1976 MEAN DAILY DISCHARGE (cfs)													CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	333.9	266.7	237.0	214.5	534.7	814.3	216.8	68.9	60.4	129.5	177.4	138.8	
2	319.4	264.5	237.3	205.2	611.0	714.3	205.2	65.6	80.4	124.9	166.9	138.8	
3	312.2	264.5	232.9	197.6	636.7	634.4	193.8	68.9	80.4	120.5	173.9	140.4	
4	302.8	273.3	258.0	195.7	606.7	555.1	181.0	82.9	80.4	122.0	205.2	137.2	
5	298.2	298.2	284.5	195.7	527.1	541.8	170.4	104.1	72.3	111.8	182.8	138.8	
6	302.8	305.2	266.7	195.7	493.8	719.2	161.7	376.9	67.8	123.5	168.6	156.7	
7	282.2	300.5	263.0	195.7	441.7	709.6	158.3	176.1	62.4	116.1	155.0	158.3	
8	277.8	295.9	406.2	195.7	444.5	674.4	155.0	187.1	61.7	120.5	146.8	148.4	
9	282.2	298.2	561.7	265.8	447.4	601.1	141.9	146.8	99.2	122.0	143.5	141.9	
10	277.8	293.6	478.3	286.8	430.5	400.7	137.2	131.0	86.4	120.5	140.4	141.9	
11	324.2	282.2	397.8	245.3	422.2	331.4	134.1	128.0	119.4	116.1	135.6	140.4	
12	317.0	273.3	371.6	222.8	403.2	302.8	135.6	140.4	160.6	111.8	134.1	140.4	
13	309.9	268.9	356.3	212.9	708.5	286.8	126.4	111.8	507.1	107.6	132.5	145.2	
14	312.2	268.9	348.7	207.1	730.6	295.9	129.5	90.3	306.7	100.8	131.0	143.5	
15	314.6	273.3	331.4	226.4	726.0	345.0	619.3	73.4	278.8	99.5	131.0	141.9	
16	307.5	275.5	321.8	312.8	711.5	305.7	834.8	62.4	628.4	100.8	131.0	140.4	
17	305.2	268.9	312.2	492.0	559.8	260.2	376.9	55.2	885.7	102.1	129.5	140.4	
18	300.5	260.2	293.6	845.7	435.4	247.4	258.8	51.3	553.5	103.5	129.5	138.8	
19	293.6	258.0	280.0	1447.8	366.4	241.1	192.0	43.0	412.9	107.6	129.5	141.9	
20	289.0	256.0	264.5	1852.1	333.9	232.9	160.0	38.7	315.5	106.2	129.5	138.8	
21	286.8	286.8	251.6	1421.5	300.5	218.8	137.2	38.7	237.7	103.5	128.0	135.6	
22	286.8	336.3	243.2	1112.2	277.8	270.0	124.9	35.5	195.7	103.5	126.4	135.6	
23	296.8	338.8	239.1	1175.6	282.2	410.1	119.0	37.9	184.6	106.2	128.0	135.6	
24	284.5	343.7	232.9	677.5	280.0	939.2	106.2	43.0	256.1	109.0	129.5	135.6	
25	282.2	338.6	241.1	678.4	277.8	611.0	95.5	43.3	240.7	111.8	135.6	137.2	
26	282.2	302.8	228.6	570.1	351.3	437.8	89.1	55.3	175.6	111.8	138.8	134.1	
27	282.2	253.6	226.8	450.3	960.4	364.6	85.3	30.1	148.4	114.7	134.1	132.5	
28	282.2	247.4	226.8	528.3	641.7	414.1	78.1	25.2	132.5	114.7	129.5	131.0	
29	280.0	241.1	268.4	511.9	765.8	338.2	89.1	33.6	131.0	140.1	129.5	131.0	
30	277.8	266.9	616.3	1156.9	252.2	87.8	62.7	135.6	200.9	134.1	132.5	132.5	
31	273.3	224.8	224.8	1049.2	277.8	611.0	73.4	75.7	177.4	111.8	135.6	137.2	
MEAN	295.73	284.04	295.27	543.45	545.65	449.00	186.26	86.57	225.93	116.09	142.91	139.31	
INCHES	0.071	0.064	0.071	0.127	0.132	0.105	0.045	0.021	0.053	0.028	0.033	0.034	
STA AV	0.054	0.052	0.074	0.102	0.155	0.159	0.071	0.060	0.093	0.080	0.092	0.054	

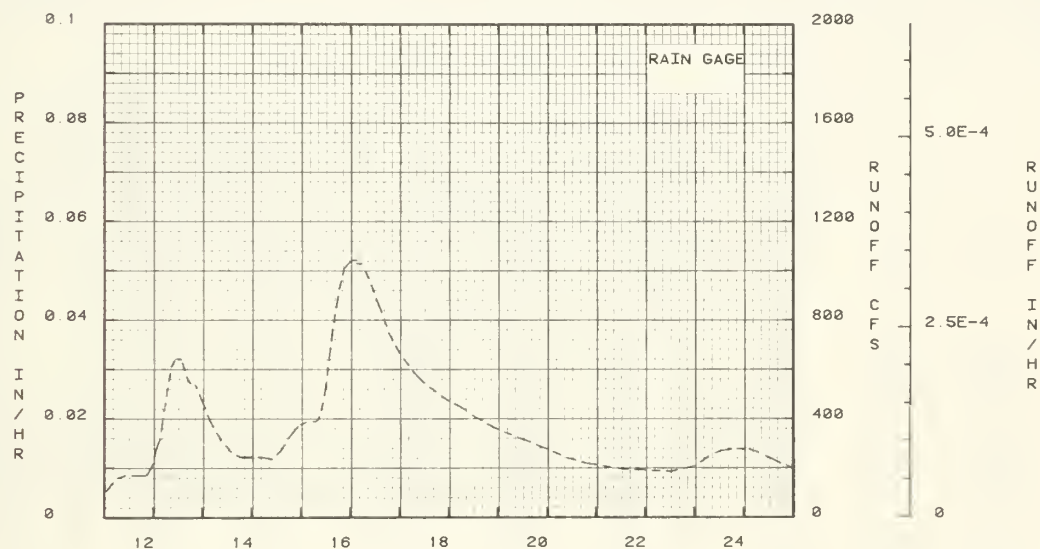
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000007776. To convert discharge in inches to AC-FT, multiply by 255,093. STA AV values are based on 16 yr (1961-76) record period.

1976 SELECTED RUNOFF EVENT			CHICKASAW, OKLAHOMA WATERSHED 700 NEAR ALEY							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 12 - 26, 1976										
9-12		0.000					9-12	130	108.400	0.0
								430	139.800	0.0001
								730	162.400	0.0003
								1030	170.400	0.0004
								2000	170.400	0.0009
								2111	173.400	0.0010
								2400	218.000	0.0012
							9-13	130	275.600	0.0013
								323	317.800	0.0015
								500	402.500	0.0017
								700	523.000	0.0020
								900	612.100	0.0024
								1011	633.500	0.0026
								1130	640.800	0.0029
								1330	639.198	0.0033
								1411	624.300	0.0034
								1700	553.500	0.0040
								1811	541.198	0.0042
								2030	535.198	0.0046
								2111	523.100	0.0047
								2400	468.898	0.0051
							9-14	330	391.898	0.0056
								900	312.599	0.0063
								1400	263.398	0.0067
								1830	242.900	0.0071
								2400	243.200	0.0075
							9-15	400	243.100	0.0078
								1000	233.200	0.0083
								1400	268.300	0.0086
								1800	321.300	0.0090
								2230	368.100	0.0095
								2400	375.000	0.0097
							9-16	230	384.898	0.0100
								730	387.800	0.0106
								900	406.198	0.0108
								1000	434.100	0.0110
								1200	516.600	0.0113
								1400	656.398	0.0116
								1530	760.998	0.0120
								1800	896.099	0.0127
								2100	1009.800	0.0136
								2400	1035.198	0.0146
							9-17	48	1041.698	0.0148
								248	1039.198	0.0155
								311	1026.498	0.0156
								530	1024.998	0.0164
								900	967.098	0.0175
								1400	857.198	0.0190
								1900	744.398	0.0203
								2400	664.300	0.0215
							9-18	730	581.600	0.0230
								1200	544.100	0.0238
								2400	469.198	0.0258
							9-19	600	446.398	0.0267
								1300	404.898	0.0276
								2400	355.600	0.0290
							9-20	1230	314.100	0.0303
								2400	275.000	0.0314
							9-21	1030	238.600	0.0323
								1830	218.500	0.0329
								2400	210.900	0.0333
							9-22	1200	195.700	0.0341
								2400	190.150	0.0356
							9-23	1200	184.600	0.0363
								2400	207.100	0.0378
							9-24	700	246.000	0.0383
								1300	269.300	0.0388
								1800	275.600	0.0392
								2230	275.500	0.0396
								2400	273.198	0.0397
							9-25	300	273.000	0.0400
								730	259.698	0.0404
								1200	242.600	0.0408
								1800	218.300	0.0412
								2400	197.400	0.0416

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000003240. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.

1976 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 12 - 26, 1976 (CONTINUED)										
							9-26	1200	175.600	0.0424
								2400	162.000	0.0437

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000003240. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.



EVENT OF SEPTEMBER 12 - 26, 1976
CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX

CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO

LOCATION: Tonkawa Creek Watershed above County road South of Anadarko in Caddo County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NW1/4 sec. 34, T. 7 N., R. 10 W., lat. 35 deg. 03 min. N.; long. 98 deg. 15 min. W.; 2 miles South of Anadarko, Okla., on upstream side of section line road bridge.

AREA: 16634.00 acres 26.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P	0.0	0.16	2.16	6.62	3.30	2.17	0.67	2.98	3.60	2.73	0.0	0.26	24.65	
	Q	0.149	0.117	0.169	0.485	0.187	0.118	0.013	0.005	0.017	0.017	0.034	0.062	1.373	
STA AV	P	0.82	1.35	1.88	2.88	4.12	2.81	2.09	2.70	3.92	2.35	1.71	0.86	27.18	
	Q	0.086	0.291	0.138	0.171	0.191	0.103	0.049	0.025	0.043	0.039	0.075	0.072	1.084	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		4-7	0.022	4-7	0.021	4-7	0.040	4-7	0.078	4-7	0.092	4-7	0.108	4-7	0.127
		4-15	0.231												
MAXIMUMS FOR PERIOD OF RECORD															
		5-10	0.045	5-10	0.044	5-10	0.080	5-10	0.135	5-10	0.149	5-9	0.234	5-9	0.295
		1964		1964		1964		1964		1964		1964		1964	
														5-31	0.382
														1973	

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 16%; row crop - 1%; alfalfa - 2%; pasture and range - 72% and miscellaneous - 9%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.7-21 and 1962, USDA Misc. Pub. 1070, p. 69.7-9 (Geologic) and p. 69.10-4 (Topography). Precipitation data obtained from a Thiessen weighted average of 6 gages on the watershed. Precipitation records began Oct. 1961; runoff records began June 1962. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.69	0.0	0.13	0.0	0.0		
5	0.0	0.16	0.0	0.0	0.32	0.0	0.0	0.28	0.0	0.13	0.0	0.19		
6	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.0	0.0	0.07		
7	0.0	0.0	0.69	1.80	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0		
8	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0	1.05	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.22	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0 T	0.0		
12	0.0	0.0	0.0	0.01	0.42	0.0	0.0	0.0	1.39	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.22	0.01	0.0	0.89	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0		
15	0.0	0.0	0.0	1.82	0.0	0.01	0.42	0.0	0.0	0.29	0.0	0.0		
16	0.0	0.0	0.0	0.09	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.94	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.05	0.0	0.0		
19	0.0	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.12	0.59	0.0	0.18	0.0	0.10	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.02	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.10	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.14	0.06	0.0	0.0		
28	0.0	0.0	0.01	1.15	0.0	0.0	0.16	0.0	0.0	0.05	0.0	0.0		
29	0.0	0.0	0.07	0.0	0.04	0.0	0.0	0.42	0.0	1.44	0.0	0.0		
30	0.0	0.0	0.0	0.13	0.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0		
TOTAL	0.0	0.16	2.16	6.62	3.30	2.17	0.67	2.98	3.60	2.73	0.0	0.26		
STA AV	0.82	1.05	1.88	2.88	4.12	2.81	2.09	2.70	3.92	2.35	1.71	0.86		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 6 rain gages on the watershed. STA AV values are based on 16 yr (1961-76) record period.

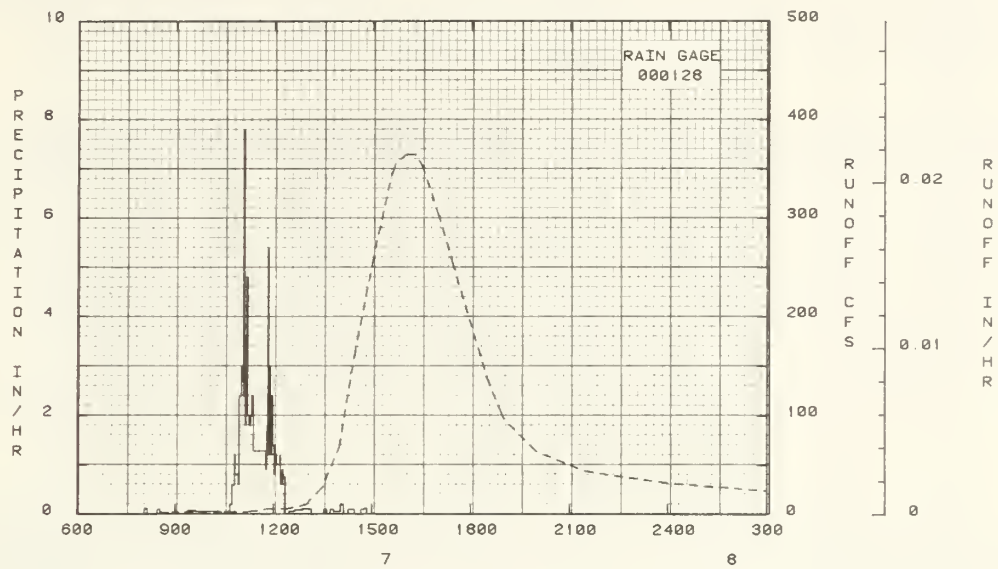
1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3.640	3.110	2.400	2.290	6.520	8.450	0.760	0.010	0.280	0.250	0.690	1.000
2	3.510	2.980	2.400	2.290	5.210	7.130	0.620	0.010	0.160	0.220	0.620	1.090
3	2.980	2.930	3.510	2.290	4.390	6.320	0.460	0.010	0.090	0.160	0.620	1.220
4	2.980	3.370	3.790	2.290	3.930	5.750	0.510	2.833	0.040	0.160	1.090	1.220
5	3.110	3.240	3.110	2.290	3.370	5.210	0.510	0.320	0.010	0.280	1.220	1.300
6	3.510	3.240	2.980	2.290	4.710	5.040	0.510	0.250	0.0	0.280	0.910	1.370
7	2.980	3.110	3.479	64.481	3.790	5.040	0.460	0.120	0.0	0.320	0.760	1.150
8	2.510	3.240	11.230	18.881	3.370	4.540	0.360	0.070	0.726	0.510	0.690	4.037
9	2.740	3.240	8.736	10.170	3.240	1.800	0.280	0.040	0.879	0.320	0.690	7.106
10	3.370	3.240	6.130	7.130	3.240	1.370	0.320	0.020	0.120	0.280	0.690	1.150
11	3.640	3.240	5.750	5.940	3.240	1.090	0.360	0.0	0.090	0.220	0.690	1.090
12	3.640	3.240	5.940	4.870	5.131	1.000	0.360	0.0	0.352	0.160	0.690	1.090
13	3.510	3.240	4.390	3.930	5.099	1.000	0.320	0.0	4.789	0.190	0.690	1.000
14	3.640	3.110	3.930	3.640	3.640	1.090	0.280	0.0	0.460	0.190	0.760	1.000
15	3.930	3.110	3.930	16.183	3.370	1.000	0.320	0.0	0.320	0.220	0.760	1.000
16	3.640	2.980	3.370	23.246	3.240	1.000	0.620	0.0	0.280	0.250	0.760	1.000
17	3.510	2.860	3.240	36.069	2.860	0.910	0.460	0.0	0.280	0.220	0.760	1.000
18	3.510	2.740	3.110	15.614	2.620	1.150	0.360	0.0	0.250	0.250	0.760	1.000
19	3.370	2.510	3.110	16.990	2.510	1.090	0.280	0.0	0.280	0.280	0.760	1.000
20	3.370	2.510	3.110	18.478	2.400	0.910	0.190	0.0	0.250	0.250	0.830	0.910
21	3.370	2.290	2.980	12.090	2.400	0.760	0.160	0.0	0.250	0.250	0.830	0.910
22	3.510	2.130	2.860	10.170	2.290	0.690	0.100	0.0	0.220	0.280	0.830	0.910
23	3.510	2.130	2.860	8.920	3.640	0.701	0.100	0.0	0.190	0.360	0.830	0.910
24	3.510	2.130	2.740	8.000	2.860	8.807	0.090	0.0	0.190	0.410	0.910	1.090
25	3.510	2.290	2.980	5.940	2.980	3.110	0.070	0.0	0.220	0.410	0.910	1.090
26	3.370	2.130	2.860	3.240	8.194	2.400	0.070	0.0	0.250	0.410	0.910	1.090
27	3.240	2.130	2.620	3.110	5.570	1.800	0.050	0.0	0.280	0.460	0.760	1.090
28	3.240	2.803	2.620	12.960	4.390	1.450	0.040	0.0	0.320	0.460	0.760	1.300
29	3.110	2.430	2.980	8.450	3.640	1.220	0.070	0.0	0.280	1.370	0.830	1.540
30	3.240		2.400	6.720	3.240	0.910	0.050	0.020	0.250	1.450	0.830	1.450
31	3.110		2.290		15.647		0.020	0.140		0.760		1.000
MEAN	3.349	2.828	3.801	11.299	4.217	2.758	0.295	0.124	0.404	0.375	0.795	1.391
INCHES	0.149	0.117	0.169	0.485	0.187	0.118	0.013	0.005	0.017	0.017	0.034	0.062
STA AV	0.086	0.091	0.136	0.171	0.191	0.103	0.049	0.025	0.043	0.039	0.075	0.072

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001431. To convert discharge in inches to AC-FT, multiply by 1,385. STA AV values are based on 15 yr (1962-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 7 - 10, 1976										
RG 000128										
4- 7 0.0 0.001 4- 7 RG 000128										
					804 0.0	0.0	4- 7	918	2.290	0.0
					809 0.1200	0.01		1111	2.620	0.0003
					827 0.0	0.01		1130	3.510	0.0003
					833 0.1000	0.02		1148	5.210	0.0004
					848 0.0400	0.03		1223	5.210	0.0006
WATERSHED CONDITIONS:										
From a revised 1974 survey;										
sowed crop - 16%; row crop -										
1%; alfalfa - 2%; pasture										
and range - 72%; and miscel-										
laneous - 9%.										
					854 0.0	0.03		1300	9.920	0.0009
					907 0.0462	0.04		1330	28.150	0.0014
					923 0.0	0.04		1400	69.070	0.0029
					938 0.0800	0.06		1430	170.150	0.0065
					950 0.0500	0.07		1500	254.940	0.0128
					1011 0.0571	0.09		1530	335.740	0.0216
					1021 0.0600	0.10		1541	354.888	0.0254
					1031 0.0	0.10		1600	364.698	0.0322
					1041 0.0600	0.11		1618	364.698	0.0387
					1044 0.2000	0.12		1630	352.469	0.0430
					1046 0.6000	0.16		1700	303.668	0.0527
					1049 0.6000	0.17		1730	246.960	0.0610
					1050 1.2000	0.19		1830	137.910	0.0724
					1056 0.8000	0.27		1900	96.290	0.0759
					1057 0.6000	0.28		2000	63.220	0.0807
					1059 2.4000	0.36		2130	43.240	0.0854
					1101 2.4000	0.44		2400	31.510	0.0910
					1102 3.0000	0.49	4- 8	300	23.510	0.0959
					1104 2.7000	0.58		730	23.940	0.1023
					1105 4.8000	0.66		1200	16.530	0.1077
					1106 7.8000	0.79		1630	15.170	0.1120
					1108 2.4000	0.87		1800	13.890	0.1133
					1110 1.8000	0.93		2400	12.670	0.1180
					1111 3.6000	0.99	4- 9	1200	10.170	0.1262
					1112 4.8000	1.07		2400	8.650	0.1407

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0005962.

1976			SELECTED RUNOFF EVENT										CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO									
ANTECEDENT CONDITIONS			RAINFALL					RUNOFF														
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.												
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)												
EVENT OF											APRIL 7 - 10, 1976 (CONTINUED)											
4- 7			1115		2.0000	1.17	4-10			1200	7.130	0.1464										
			1117		1.8000	1.23																
			1118		1.8000	1.26																
			1121		2.0000	1.36																
			1123		2.4000	1.44																
			1146		1.2783	1.93																
			1148		0.9000	1.96																
			1149		1.8000	1.99																
			1150		5.4000	2.08																
			1152		1.2000	2.12																
			1153		2.4000	2.16																
			1154		3.0000	2.21																
			1156		1.5000	2.26																
			1157		1.2000	2.28																
			1158		2.4000	2.32																
			1201		1.4000	2.39																
			1204		0.8000	2.43																
			1206		1.2000	2.47																
			1212		1.0000	2.57																
			1213		1.2000	2.59																
			1216		0.6000	2.62																
			1218		0.9000	2.65																
			1222		0.7500	2.70																
			1224		0.0	2.70																
			1229		0.0	2.70																
			1239		0.0600	2.71																
			1246		0.0857	2.72																
			1253		0.0857	2.73																
			1304		0.1091	2.75																
			1310		0.1000	2.76																
			1332		0.0	2.76																
			1338		0.1000	2.77																
			1344		0.0	2.77																
			1350		0.1000	2.78																
			1402		0.0500	2.79																
			1408		0.2000	2.81																
			1416		0.0	2.81																
			1428		0.1000	2.83																
			1440		0.0	2.83																
			1446		0.1000	2.84																
			1451		0.1200	2.85																
			2400		0.0	2.85																



EVENT OF APRIL 7 - 10, 1976
CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO

CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO

LOCATION: Delaware Creek Watershed above County road bridge East of Anadarko in Caddo County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NW1/4 sec. 29, T. 7 N., R. 9 W., lat 35 deg. 03 min. N., long. 98 deg. 10 min. W., 3 miles East and 1 mile South of Anadarko, Okla., at section line road bridge.

AREA: 25660.00 acres 40.10 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)								CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	0.0	0.35	2.35	5.03	2.79	2.49	1.28	2.95	3.33	2.38	0.01	0.31	23.27					
	Q	0.093	0.084	0.150	0.215	0.121	0.062	0.013	0.016	0.008	0.012	0.023	0.033	0.828					
STA AV	P	0.90	1.16	1.90	2.89	4.28	2.81	2.30	2.57	3.95	2.49	1.82	0.92	27.99					
	Q	0.065	0.377	0.118	0.122	0.166	0.094	0.039	0.014	0.021	0.032	0.044	0.053	0.843					
ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		4-19	0.603	4-19	0.003	4-19	0.005	4-19	0.015	4-19	0.024	4-19	0.035	4-19	0.049	4-15	0.133		
MAXIMUMS FOR PERIOD OF RECORD																			
		6- 2	0.342	6- 2	0.041	6- 2	0.079	6- 2	0.193	6- 2	0.273	6- 2	0.315	6- 1	0.372	5-31	0.461		
		1973		1973		1973		1973		1973		1973		1973		1973			

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 11%; row crop - 3%; alfalfa - 2%; pasture and range - 74%; and miscellaneous - 10%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.11-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 10 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Aug. 1962. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976		DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA				WATERSHED 131 NEAR ANADARKO			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	
4	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.73	0.0	0.18	0.0	0.0	0.0	
5	0.0	0.35	0.0	0.0	0.31	0.0	0.0	0.60	0.0	0.08	0.0	0.23		
6	0.0	0.0	0.0	0.0	0.0 T	0.0 T	0.0	0.02	0.01	0.0	0.0	0.08		
7	0.0	0.0	0.78	0.89	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0		
8	0.0	0.0	0.82	0.0	0.0	0.0	0.0	0.0	1.13	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.10	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.0		
12	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	1.14	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.22	0.23	0.0	0.86	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0 T	0.0		
15	0.0	0.0	0.0	1.29	0.0	0.0	0.64	0.0	0.0	0.05	0.0	0.0		
16	0.0	0.0	0.0	0.14	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.06	0.0	0.0		
19	0.0	0.0	0.0	1.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.56	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.13	0.72	0.0	0.07	0.0	0.13	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	1.33	0.0	0.04	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.07	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.13	0.04	0.0	0.0		
28	0.0	0.0	0.0 T	0.85	0.0	0.0	0.19	0.01	0.0	0.05	0.0 T	0.0		
29	0.0	0.0	0.08	0.0	0.01	0.0	0.0	0.32	0.0	1.36	0.0	0.0		
30	0.0	0.0	0.0	0.13	0.52	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.10	0.0	0.0	0.0	0.0		
TOTAL	0.0	0.35	2.35	5.03	2.79	2.49	1.28	2.95	3.33	2.38	0.01	0.31		
STA AV	0.90	1.16	1.90	2.89	4.28	2.81	2.30	2.57	3.95	2.49	1.82	0.92		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 10 rain gages on the watershed. STA AV values are based on 16 yr (1961-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	4.310	2.880	2.750	2.750	7.190	4.707	0.770	0.040	0.060	0.140	0.830	0.830
2	3.690	2.850	2.750	2.520	4.980	3.000	0.720	0.040	0.040	0.110	0.830	0.830
3	3.550	2.850	6.638	2.400	3.840	2.630	0.570	0.040	0.030	0.110	0.770	1.010
4	3.130	2.880	5.730	2.400	3.690	2.290	0.670	13.304	0.020	0.110	0.770	1.010
5	3.130	4.150	3.690	2.400	3.840	2.080	0.670	1.364	0.020	0.280	0.670	1.140
6	3.690	3.400	3.400	2.520	5.920	2.080	0.570	1.177	0.020	0.230	0.670	1.700
7	2.520	2.750	5.459	7.799	4.150	2.080	0.490	0.310	0.020	0.280	0.670	1.140
8	2.290	4.640	29.611	6.630	3.550	1.790	0.410	0.180	0.174	0.490	0.620	1.140
9	2.520	4.310	16.416	3.990	3.400	1.530	0.340	0.120	1.002	0.280	0.720	1.210
10	3.550	3.840	7.410	3.270	3.550	1.370	0.410	0.090	0.060	0.250	0.720	1.140
11	3.690	3.550	6.330	3.000	3.270	1.210	0.450	0.050	0.020	0.200	0.720	1.140
12	3.690	3.550	6.120	2.880	3.550	1.140	0.450	0.040	0.076	0.160	0.670	1.140
13	3.840	3.550	4.640	3.000	3.550	1.140	0.490	0.020	3.753	0.140	0.720	1.140
14	3.400	3.400	4.640	3.000	3.000	1.210	1.080	0.020	0.380	0.160	0.830	1.210
15	3.550	3.400	4.640	13.203	2.880	1.080	0.890	0.020	0.230	0.180	0.890	1.210
16	3.270	3.400	4.150	18.483	2.750	0.950	1.980	0.020	0.200	0.280	0.890	1.140
17	3.130	3.130	3.840	21.121	2.520	0.890	0.770	0.020	0.180	0.230	0.890	1.210
18	3.270	2.890	3.690	11.434	2.400	1.140	0.410	0.020	0.180	0.250	0.890	1.210
19	3.130	2.880	3.840	34.928	2.400	1.210	0.310	0.020	0.200	0.280	0.890	1.290
20	3.000	3.000	3.400	17.605	2.290	0.890	0.230	0.020	0.230	0.280	0.890	1.080
21	3.130	2.520	3.000	9.650	2.290	0.770	0.140	0.020	0.180	0.310	0.770	0.950
22	3.130	2.400	3.130	6.750	2.290	0.670	0.120	0.020	0.140	0.280	0.830	0.950
23	3.130	2.750	3.000	5.350	4.980	0.712	0.120	0.020	0.120	0.310	0.890	0.950
24	3.270	2.630	3.000	4.470	3.000	20.301	0.110	0.020	0.110	0.410	0.890	1.370
25	3.130	2.400	3.270	3.840	3.000	3.785	0.080	0.020	0.110	0.340	1.010	1.290
26	2.880	2.520	3.130	3.840	7.190	1.790	0.070	0.020	0.110	0.340	1.010	1.210
27	2.980	2.630	2.880	3.690	5.530	1.370	0.060	0.020	0.180	0.450	0.830	1.290
28	3.000	2.750	2.880	11.825	3.840	1.140	0.060	0.020	0.250	0.450	0.830	1.290
29	3.000	2.750	3.270	9.920	3.000	0.950	0.070	0.040	0.200	1.896	0.830	1.210
30	3.000		2.630	6.960	2.630	0.830	0.060	0.040	0.180	2.532	0.830	1.210
31	3.000		2.630		19.660		0.040	0.040		1.080		1.080
MEAN	3.2225	3.1276	5.2236	7.7208	4.1977	2.2245	0.4390	0.5547	0.2825	0.4141	0.8090	1.1523
INCHES	0.093	0.084	0.150	0.215	0.121	0.062	0.013	0.016	0.008	0.012	0.023	0.033
STA AV	0.065	0.077	0.118	0.122	0.166	0.094	0.039	0.014	0.021	0.032	0.044	0.053

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0009276. To convert discharge in inches to AC-FT, multiply by 2.134. STA AV values are based on 15 yr (1962-76) record period.

CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLER

LOCATION: West Bitter Creek Watershed above U.S. Highway 62 bridge, East of Chickasha in Grady County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--SW1/4 sec. 29, T. 7 N., E. 6 W., lat. 35 deg. 03 min. N., long. 97 deg. 51 min. W., 4 miles East of Chickasha, Okla., at U.S. highway 62 bridge.

AREA: 38020.00 acres 59.40 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSREED 511 NEAR TABLER											
		Jan	Feh	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.0	0.33	3.12	3.89	2.34	2.33	1.81	1.70	2.99	2.02	0.11	0.46	21.10			
	Q	0.119	0.103	0.152	0.201	0.129	0.078	0.046	0.015	0.046	0.030	0.040	0.049	1.008			
STA AV	P	0.85	1.14	2.09	2.94	3.64	3.10	2.30	2.99	3.76	2.53	1.80	0.99	28.13			
	Q	0.083	0.093	0.238	0.323	0.375	0.383	0.121	0.169	0.198	0.177	0.133	0.079	2.373			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days			
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1976		4-19	0.004	4-19	0.004	4-19	0.008	4-19	0.021	4-19	0.033	4-19	0.057	4-19	0.073	4-15	0.127
MAXIMUMS FOR PERIOD OF RECORD																	
		4-12	0.086	4-12	0.086	4-12	0.169	10- 2	0.462	10- 2	0.729	10- 2	0.796	10- 2	0.832	5-31	1.996
		1967		1967		1967		1971		1971		1971		1971		1973	

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 23%; row crop - 3%; alfalfa - 3%; pasture and range - 62% and miscellaneous - 9%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.13-11 (Topography) and p. 69.7-21 (Composite). Precipitation records began Oct. 1961; runoff records began Oct. 1962. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976	DAILY PRECIPITATION (inches)						CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLER							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.08	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.39	0.0	0.0	0.0	0.0 T	0.0	0.0	0.03	0.0	0.0	0.0	0.0
4	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.06	0.0	0.05	0.0	0.0	0.0	0.0
5	0.0	0.33	0.0	0.0	0.24	0.0	0.0	0.95	0.0	0.12	0.0	0.38		
6	0.0	0.0	0.0	0.0	0.01	0.10	0.0	0.15	0.0	0.0	0.0	0.08		
7	0.0	0.0	0.81	0.25	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0		
8	0.0	0.0	1.17	0.0	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.03	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.06	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.08	0.0		
12	0.0	0.0	0.0	0.0	0.13	0.0	0.01	0.0	1.15	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.66	0.01	0.0	0.87	0.0	0.03	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.13	0.0	0.0 T	0.0		
15	0.0	0.0	0.0	0.76	0.0	0.0	1.22	0.0	0.0	0.04	0.0	0.0		
16	0.0	0.0	0.0	0.17	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.01	0.0	0.17	0.0	0.0	0.0	0.03	0.0	0.0		
19	0.0	0.0	0.0	1.43	0.0	0.0	0.0	0.0	0.02	0.0 T	0.0	0.0		
20	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.04	0.59	0.0	0.10	0.0	0.09	0.0	0.0		
24	0.0	0.0	0.04	0.0	0.0	0.81	0.0	0.09	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.05	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.03	0.0	0.0		
28	0.0	0.0	0.13	0.92	0.0	0.0	0.40	0.03	0.0	0.0 T	0.0	0.0		
29	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.09	0.0	1.44	0.0	0.0		
30	0.0	0.0	0.0	0.15	0.14	0.0	0.0	0.0 T	0.0	0.03	0.0	0.0		
31	0.0		0.0		0.19		0.0	0.23		0.0		0.0		
TOTAL	0.0	0.33	3.12	3.89	2.34	2.33	1.81	1.70	2.99	2.02	0.11	0.46		
STA AV	0.85	1.14	2.09	2.94	3.64	3.10	2.30	2.99	3.76	2.53	1.80	0.99		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69-007) of this publication. Precipitation values are a Thiessen weighted average of 16 rain gages on the watershed. STA AV values are based on 16 yr (1961-76) record period.

1976	MEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLAHOMA			WATERSRED 511 NEAR TABLER			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	7.370	5.970	5.540	5.540	8.420	6.289	2.190	0.870	1.230	1.230	2.550	2.680
2	6.680	5.750	5.540	5.540	7.880	4.200	2.080	0.810	1.150	1.070	2.310	2.550
3	5.750	5.970	5.970	5.970	5.970	3.540	2.080	0.750	1.070	1.000	2.310	2.680
4	5.750	5.970	6.650	5.540	5.340	3.390	2.080	0.750	0.870	1.000	1.860	2.550
5	5.540	7.130	5.970	5.540	4.940	3.090	2.190	0.828	0.810	1.230	1.970	2.680
6	6.420	5.750	5.340	5.540	8.420	3.390	2.080	5.345	0.640	1.150	1.970	4.030
7	4.750	5.750	6.279	5.970	6.190	3.390	1.970	2.190	0.490	1.230	1.970	3.390
8	4.940	6.680	22.759	7.130	5.340	3.390	1.760	1.150	0.540	1.480	1.760	2.950
9	4.940	6.650	29.623	6.650	5.140	3.240	1.760	0.930	1.000	1.570	1.760	2.680
10	6.880	6.420	10.610	5.970	4.940	3.090	1.660	0.870	2.727	1.660	1.970	2.680
11	7.630	6.190	8.420	5.750	5.340	2.680	1.760	0.690	1.150	1.390	2.190	2.430
12	6.650	5.750	7.880	6.190	4.940	2.430	1.860	0.590	2.012	1.000	2.080	2.430
13	6.880	4.940	6.680	5.970	5.140	2.550	1.760	0.490	30.320	1.000	2.080	2.430
14	6.190	4.940	6.420	5.970	4.940	5.970	1.760	0.370	5.437	0.930	2.190	2.430
15	5.750	5.540	6.420	8.150	4.380	3.390	4.118	0.410	3.672	0.930	2.310	2.430
16	5.970	5.750	6.420	10.900	4.200	2.680	21.767	0.410	1.390	1.070	2.190	2.310
17	6.190	5.750	5.970	8.970	3.860	2.430	2.950	0.370	1.230	0.930	2.310	2.310
18	6.190	5.540	5.750	8.150	3.700	2.430	1.970	0.410	1.230	0.930	2.310	2.550
19	6.190	5.540	4.940	64.377	3.700	2.680	1.860	0.410	1.310	1.000	2.680	2.820
20	5.970	5.340	4.940	51.033	3.700	2.430	1.570	0.410	1.480	1.070	2.310	2.680
21	5.970	5.340	5.340	12.400	3.700	2.310	1.310	0.410	1.390	1.230	2.080	2.310
22	5.970	4.940	5.340	8.420	4.940	2.080	1.230	0.370	1.310	1.150	1.970	2.430
23	6.190	4.940	4.940	7.370	5.970	2.190	1.000	0.370	1.230	1.310	1.970	2.550
24	6.420	5.140	5.540	6.150	4.940	31.614	0.930	0.370	1.070	1.570	2.080	2.550
25	6.880	5.340	6.190	5.540	4.750	6.093	1.150	0.410	1.310	1.480	2.430	2.550
26	5.970	5.140	5.750	5.140	14.918	3.390	1.230	0.410	1.760	1.570	2.550	2.190
27	5.750	5.340	5.340	5.140	25.969	2.950	0.930	0.410	1.150	1.760	2.080	2.310
28	6.190	5.340	5.540	13.022	7.630	2.550	0.930	0.540	1.310	1.760	1.570	2.310
29	6.190	5.340	15.848	13.667	5.340	2.310	1.860	0.450	1.310	3.785	1.760	2.190
30	6.190		8.782	6.690	4.380	2.080	1.150	0.590	1.310	6.662	2.080	2.080
31	6.190		5.970		16.733		0.930	0.810		3.240		1.480
MEAN	6.153	5.668	7.835	10.681	6.637	4.142	2.383	0.780	2.430	1.561	2.122	2.537
INCHES	0.119	0.103	0.152	0.201	0.129	0.078	0.046	0.015	0.046	0.030	0.040	0.049
STA AV	0.083	0.093	0.238	0.323	0.375	0.383	0.121	0.169	0.198	0.177	0.133	0.079

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0006260. To convert discharge in inches to AC-FT, multiply by 3,168. STA AV values are based on 15 yr (1962-76) record period.

CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO

LOCATION: Tonkawa Creek Watershed above county road East-Northeast of Anadarko, in Caddo County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NE1/4 sec. 18, T. 7 N., R. 9 W., lat. 35 deg. 05 min. N., long. 98 deg. 11 min. W., 2-1/2 miles East of Anadarko, Okla., on upstream side of section line road bridge.

AREA: 25020.00 acres 39.10 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASRA, OKLAHOMA WATERSHED 110 NEAR ANADARKO											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.0	0.16	2.16	6.72	3.26	2.29	0.71	3.17	3.52	2.66	0.0	0.26	24.91			
	Q	0.086	0.085	0.114	0.359	0.172	0.103	0.008	0.0	0.000	0.0	0.0	0.002	0.929			
STA AV	P	0.83	1.35	1.88	2.93	4.04	2.84	2.09	2.73	3.86	2.31	1.68	0.86	27.10			
	Q	0.020	0.031	0.048	0.060	0.093	0.044	0.016	0.013	0.002	0.001	0.019	0.015	0.363			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		4-18	0.002	4-21	0.002	4-21	0.004	4-21	0.013	4-21	0.025	4-17	0.038	4-17	0.075	4-16	0.238
MAXIMUMS FOR PERIOD OF RECORD																	
		5-11	0.004	5-11	0.004	5-11	0.007	5-11	0.021	5-11	0.038	5-6	0.070	5-6	0.127	5-4	0.278
		1964		1964		1964		1964		1964		1969		1969		1969	

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 28%; row crop - 6%; alfalfa - 6%; pasture and range - 34%; and miscellaneous - 26%. For maps of watershed, see Hydrologic Data for Experimental Agricultural watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.10-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 10 gages on the watershed. Precipitation records began Oct. 1961; runoff records began April 1963. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976	DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	
4	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	1.84	0.0	0.11	0.0	0.0	
5	0.0	0.16	0.0	0.0	0.30	0.0	0.0	0.39	0.0	0.12	0.0	0.20	
6	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.02	0.0 T	0.0	0.0	0.06	
7	0.0	0.0	0.66	1.77	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	
8	0.0	0.0	0.70	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.26	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0 T	0.0	
12	0.0	0.0	0.0	0.01	0.46	0.0	0.0	0.0	1.36	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.28	0.05	0.0	0.88	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.02	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.0	
15	0.0	0.0	0.0	1.76	0.0	0.0 T	0.49	0.0	0.0	0.24	0.0	0.0	
16	0.0	0.0	0.0	0.10	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.05	0.0	0.0	
19	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.55	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.10	0.73	0.0	0.14	0.0	0.10	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	1.02	0.0	0.04	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.10	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.14	0.06	0.0	0.0	
28	0.0	0.0	0.0 T	1.18	0.0	0.0	0.11	0.0 T	0.0	0.05	0.0	0.0	
29	0.0	0.0	0.07	0.0	0.02	0.0	0.0	0.39	0.0	1.45	0.0	0.0	
30	0.0	0.0	0.0	0.13	0.51	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.33	0.0	0.0	0.0	0.0	
TOTAL	0.0	0.16	2.16	6.72	3.26	2.29	0.71	3.17	3.52	2.66	0.0	0.26	
STA AV	0.83	1.35	1.88	2.93	4.04	2.84	2.09	2.73	3.86	2.31	1.68	0.86	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 10 rain gages on the watershed. STA AV values are based on 16 yr (1961-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.850	3.460	2.050	1.810	11.320	7.530	0.460	0.0	0.0	0.0	0.0	0.0
2	2.710	3.460	2.570	1.810	10.240	9.460	0.460	0.0	0.0	0.0	0.0	0.0
3	2.710	3.300	3.000	1.690	8.230	8.710	0.400	0.0	0.0	0.0	0.0	0.0
4	2.710	3.300	3.000	1.580	6.430	8.230	0.460	0.0	0.0	0.0	0.0	0.0
5	2.710	3.300	3.000	1.580	5.410	7.300	0.520	0.0	0.0	0.0	0.0	0.0
6	2.710	3.620	3.300	1.170	4.840	6.860	0.520	0.0	0.0	0.0	0.0	0.0
7	2.710	3.790	3.620	4.197	4.840	5.810	0.520	0.0	0.0	0.0	0.0	0.0
8	2.710	3.790	5.610	33.855	5.030	5.030	0.520	0.0	0.0	0.0	0.0	0.0
9	2.710	3.620	8.230	21.746	5.030	4.840	0.660	0.0	0.0	0.0	0.0	0.0
10	2.710	3.620	4.840	14.240	5.030	4.300	0.740	0.0	0.0	0.0	0.0	0.0
11	2.710	3.620	8.710	10.500	5.030	3.790	0.520	0.0	0.0	0.0	0.0	0.0
12	2.710	4.120	7.760	7.990	5.810	2.850	0.460	0.0	0.013	0.0	0.0	0.340
13	2.710	4.120	7.300	6.640	5.410	2.300	0.400	0.0	0.029	0.0	0.0	0.340
14	2.710	3.620	6.860	5.810	6.220	2.050	0.290	0.0	0.0	0.0	0.0	0.290
15	2.710	3.460	4.840	5.410	6.640	1.690	0.290	0.0	0.0	0.0	0.0	0.290
16	3.000	3.150	4.470	11.004	6.010	1.370	0.290	0.0	0.0	0.0	0.0	0.290
17	3.000	3.300	4.300	25.098	5.220	1.070	0.200	0.0	0.0	0.0	0.0	0.200
18	3.000	3.150	3.620	39.750	4.840	0.900	0.090	0.0	0.0	0.0	0.0	0.160
19	2.710	2.850	3.400	25.250	4.300	0.740	0.070	0.0	0.0	0.0	0.0	0.090
20	2.850	2.710	3.150	24.060	3.950	0.590	0.070	0.0	0.0	0.0	0.0	0.070
21	2.650	2.850	2.570	26.470	3.300	0.520	0.030	0.0	0.0	0.0	0.0	0.030
22	3.000	2.570	2.170	18.500	3.150	0.340	0.0	0.0	0.0	0.0	0.0	0.0
23	2.850	2.430	1.810	14.550	3.300	0.299	0.0	0.0	0.0	0.0	0.0	0.0
24	3.000	2.300	2.050	12.450	3.000	1.827	0.0	0.0	0.0	0.0	0.0	0.0
25	3.150	2.050	1.920	11.320	3.000	3.542	0.0	0.0	0.0	0.0	0.0	0.0
26	3.300	1.810	2.170	10.240	5.030	5.810	0.0	0.0	0.0	0.0	0.0	0.0
27	3.300	2.050	1.810	7.530	7.080	4.650	0.0	0.0	0.0	0.0	0.0	0.0
28	3.300	2.050	1.810	6.860	9.980	2.710	0.0	0.0	0.0	0.0	0.0	0.0
29	3.460	1.920	1.690	10.770	9.210	1.580	0.0	0.0	0.0	0.0	0.0	0.0
30	3.460		1.690	13.630	7.760	1.070	0.0	0.0	0.0	0.0	0.0	0.0
31	3.460		1.810		6.430		0.0	0.0		0.0		0.0
MEAN	2.919	3.082	3.873	12.583	5.841	3.592	0.257	0.0	0.001	0.0	0.0	0.068
INCHES	0.086	0.085	0.114	0.359	0.172	0.103	0.008	0.0	0.000	0.0	0.0	0.002
STA AV	0.020	0.031	0.048	0.060	0.093	0.044	0.016	0.013	0.002	0.001	0.019	0.015

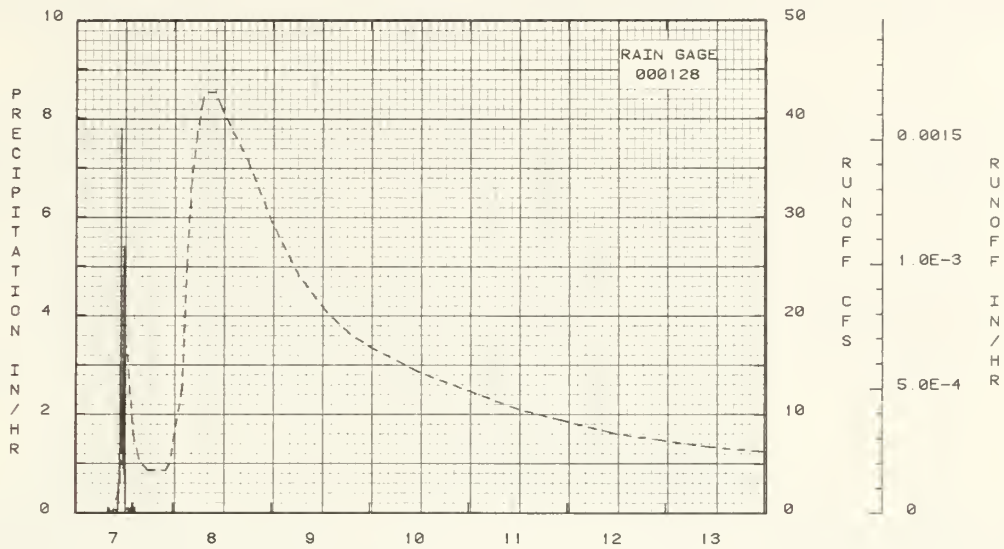
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by .0009513. To convert discharge in inches to AC-FT, multiply by 2.085. STA AV values are based on 14 yr (1963-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF APRIL 7 - 14, 1976												
RG 000128			RG 000128									
4- 7	0.0	0.001	4- 7	804	0.0	0.0	4- 7	1000	1.370	0.0		
				609	0.1200	0.01		1053	2.310	0.0001		
				827	0.0	0.01		1141	9.290	0.0002		
				833	0.1000	0.02		1211	16.260	0.0005		
				848	0.0400	0.03		1223	16.820	0.0006		
WATERSHED CONDITIONS:				854	0.0	0.03		1236	16.760	0.0008		
From a revised survey;				907	0.0462	0.04		1311	13.580	0.0011		
sowed crop - 26%; row crop -				923	0.0	0.04		1411	7.970	0.0015		
6%; alfalfa - 6%; pasture				938	0.0800	0.06		1541	5.410	0.0019		
and range - 34%; and miscel-				950	0.0500	0.07		1741	4.300	0.0023		
laneons - 26%.				1011	0.0571	0.09		2211	4.300	0.0031		
				1021	0.0600	0.10		2311	5.030	0.0033		
				1031	0.0	0.10		2400	7.320	0.0035		
				1041	0.0600	0.11	4- 8	130	11.070	0.0040		
				1044	0.2000	0.12		211	13.100	0.0043		
				1048	0.6000	0.16		311	24.980	0.0051		
				1049	0.6000	0.17		411	33.060	0.0062		
				1050	1.2000	0.19		541	38.710	0.0084		
				1056	0.8000	0.27		711	42.200	0.0108		
				1057	0.6000	0.28		811	42.650	0.0125		
				1059	2.4000	0.36		1000	42.670	0.0155		
				1101	2.4000	0.44		1200	40.630	0.0188		
				1102	3.0000	0.49		1800	35.750	0.0279		
				1104	2.7000	0.58		2400	29.410	0.0357		
				1105	4.8000	0.66	4- 9	630	24.050	0.0426		
				1106	7.8000	0.79		1330	20.270	0.0487		
				1108	2.4000	0.87		1900	18.150	0.0529		
				1110	1.8000	0.93		2400	16.800	0.0564		
				1111	3.6000	0.99	4-10	1200	14.240	0.0637		
				1112	4.8000	1.07		2400	12.370	0.0773		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000039638.

1976			SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED 110 NEAR ANADARKO		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 7 - 14, 1976 (CONTINUED)											
4- 7				1115	2.0000	1.17	4-11	1200	10.500	0.0827	
				1117	1.8000	1.23		2400	9.245	0.0927	
				1118	1.8000	1.26	4-12	1200	7.990	0.0968	
				1121	2.0000	1.36		2400	7.315	0.1044	
				1123	2.4000	1.44	4-13	1200	6.640	0.1077	
				1146	1.2783	1.93		2400	6.225	0.1141	
				1148	0.9000	1.96	4-14	1200	5.810	0.1169	
				1149	1.8000	1.99		2400	5.610	0.1224	
				1150	5.4000	2.08					
				1152	1.2000	2.12					
				1153	2.4000	2.16					
				1154	3.0000	2.21					
				1156	1.5000	2.26					
				1157	1.2000	2.28					
				1158	2.4000	2.32					
				1201	1.4000	2.39					
				1204	0.8000	2.43					
				1206	1.2000	2.47					
				1212	1.0000	2.57					
				1213	1.2000	2.59					
				1216	0.6000	2.62					
				1218	0.9000	2.65					
				1222	0.7500	2.70					
				1224	0.0	2.70					
				1229	0.0	2.70					
				1239	0.0600	2.71					
				1246	0.0857	2.72					
				1253	0.0857	2.73					
				1304	0.1091	2.75					
				1310	0.1000	2.76					
				1332	0.0	2.76					
				1338	0.1000	2.77					
				1344	0.0	2.77					
				1350	0.1000	2.78					
				1402	0.0500	2.79					
				1408	0.2000	2.81					
				1416	0.0	2.81					
				1428	0.1000	2.83					
				1440	0.0	2.83					
				1445	0.1000	2.84					
				1451	0.1200	2.85					
				2400	0.0	2.85					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000039638.



EVENT OF APRIL 7 - 14, 1976
CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO

CHICKASHA, OKLAHOMA WATERSHED 522 NEAR NINNEKAH

LOCATION: Little Washita River Watershed above U.S. highway 81 bridge South of Chickasha in Grady and Caddo Counties, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--SE 1/4 sec. 32, T. 6 N., R. 7 W., Lat. 34 deg. 57 min. N., Long. 97 deg. 57 min. W., 5-1/2 miles South of Chickasha, Okla., at U.S. highway 81 bridge.

AREA: 13290.00 acres 207.80 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							CHICKASHA, OKLAHOMA WATERSHED 522 NEAR NINNEKAH												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	0.0	0.28	2.70	4.44	3.19	2.67	2.26	2.77	2.82	2.49	0.06	0.57	24.25					
	Q	0.194	0.154	0.244	0.277	0.258	0.178	0.085	0.053	0.084	0.359	0.081	0.095	1.759					
STA AV	P	1.06	1.13	2.07	2.90	4.23	3.08	2.94	2.40	4.36	2.76	1.77	0.90	29.61					
	Q	0.109	0.108	0.177	0.192	0.302	0.259	0.230	0.083	0.129	0.137	0.126	0.099	1.949					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		5-26	0.016	5-26	0.015	5-26	0.029	5-26	0.062	5-26	0.080	5-26	0.095	5-26	0.106	5-23	0.150		
MAXIMUMS FOR PERIOD OF RECORD																			
		5-10	0.056	5-10	0.055	5-10	0.108	7-23	0.261	7-23	0.438	7-22	0.529	7-22	0.595	7-24	0.817		
		1964		1964		1964		1973		1973		1973		1973		1975			

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 15%; row crop - 2%; alfalfa - 1%; pasture and range - 66%; and miscellaneous - 16%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164; p. 69.15-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 36 gages on the watershed. Precipitation records began Oct. 1961; runoff records began April 1963. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED 522 NEAR NINNEKAH	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.93	0.0	0.35	0.0	0.0		
5	0.0	0.28	0.0	0.0	0.41	0.0	0.0	0.25	0.0	0.04	0.0	0.41		
6	0.0	0.0	0.0	0.01	0.0 T	0.06	0.0	0.07	0.0 T	0.0	0.0	0.15		
7	0.0	0.0	1.08	0.34	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0		
8	0.0	0.0	3.91	0.0	0.0	0.0	0.0	0.0	0.93	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.01		
11	0.0	0.0	0.24	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.01	0.0		
12	0.0	0.0	0.0	0.01	0.04	0.0	0.0	0.0	0.97	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.16	0.09	0.0	0.81	0.0	0.01	0.0		
14	0.0	0.0	0.0	0.0 T	0.0	0.0	0.09	0.0	0.0	0.0	0.02	0.0		
15	0.0	0.0	0.0	1.16	0.0	0.03	1.13	0.0	0.0	0.07	0.0	0.0		
16	0.0	0.0	0.0	0.16	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0 T	0.02	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0 T	0.0	0.37	0.0	0.0	0.0	0.04	0.0	0.0		
19	0.0	0.0	0.0	1.23	0.0	0.0	0.0	0.0	0.01	0.02	0.01	0.0		
20	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.44	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.19	0.88	0.0	0.13	0.0	0.11	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	1.17	0.0	0.23	0.0	0.0 T	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.19	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0 T	1.31	0.0	0.0	0.0	0.0 T	0.07	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.07	0.06	0.06	0.0	0.0		
28	0.0	0.0	0.03	0.81	0.0	0.0	0.70	0.0 T	0.0	0.06	0.0 T	0.0		
29	0.0	0.0	0.30	0.0	0.10	0.0	0.0 T	0.56	0.0	1.31	0.0	0.0		
30	0.0	0.0	0.0	0.11	0.17	0.0	0.0	0.0	0.0	0.01	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.22	0.0	0.0	0.0	0.0		
TOTAL	0.0	0.28	2.70	4.44	3.19	2.67	2.26	2.77	2.82	2.49	0.06	0.57		
STA AV	1.06	1.13	2.07	2.90	4.23	3.08	2.94	2.40	4.36	2.76	1.77	0.90		

NOTES: For daily air temperatures in the vicinity, see table for watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 36 rain gages on the watershed. STA AV values are based on 16 yr (1961-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASPA, OKLAHOMA WATERSHED 522 NEAR MINNEKAH												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	39.30	26.50	35.60	35.00	42.00	19.90	19.90	8.70	17.60	8.70	15.40	17.00
2	36.60	25.30	35.00	35.00	35.80	15.50	15.50	7.50	13.40	8.30	15.50	17.50
3	35.00	25.10	35.80	34.10	35.80	14.90	17.00	6.90	11.50	8.30	15.40	17.00
4	33.30	25.80	39.30	34.10	37.50	15.90	15.50	20.38	9.80	6.70	15.40	14.90
5	35.00	32.50	35.00	33.30	35.00	17.00	15.40	21.10	8.70	10.70	15.40	16.50
6	35.80	36.60	33.30	34.10	47.70	23.00	13.90	23.69	7.60	10.70	15.40	25.10
7	25.60	30.90	38.23	39.30	34.10	19.30	12.40	16.50	6.90	11.50	15.40	24.90
8	53.90	30.90	180.46	45.80	29.40	20.50	12.40	12.90	7.90	13.90	14.90	16.70
9	51.80	30.90	113.30	36.60	28.60	20.50	12.40	10.70	19.90	12.00	14.40	17.60
10	56.00	29.40	56.00	31.70	30.20	20.50	12.40	8.30	16.50	10.70	14.40	17.00
11	47.70	29.40	49.70	28.60	30.20	19.90	13.90	6.60	15.40	9.80	14.50	17.60
12	39.30	28.60	59.40	29.40	27.20	18.10	13.90	5.60	15.02	7.60	14.50	24.90
13	37.50	27.90	43.80	30.90	27.90	17.60	12.90	5.10	96.96	0.60	14.50	22.52
14	35.80	27.20	40.10	30.20	28.60	17.00	12.90	5.30	45.08	0.30	15.40	18.10
15	35.60	28.60	39.30	44.59	28.60	15.90	45.12	4.50	21.10	8.84	16.50	17.60
16	36.60	27.20	35.00	65.36	26.50	13.90	45.95	4.30	17.60	9.40	15.90	16.50
17	33.30	28.60	35.00	58.35	24.40	13.90	18.70	3.80	14.40	8.30	14.90	16.50
18	28.60	28.60	35.80	62.28	24.40	16.50	15.40	4.50	12.40	8.30	14.40	16.50
19	33.30	30.20	35.00	332.76	24.40	17.00	13.50	4.00	11.50	8.70	13.50	16.50
20	31.70	30.20	32.50	131.27	23.00	14.90	12.00	3.30	11.50	8.70	15.40	15.40
21	32.50	31.70	32.50	47.70	21.10	14.40	10.20	1.70	11.10	8.70	14.90	14.40
22	30.90	30.20	32.50	34.10	21.80	13.90	9.00	1.00	9.40	5.40	14.90	15.40
23	29.40	30.20	30.90	26.50	27.20	13.75	8.70	1.50	7.90	9.80	14.90	14.90
24	28.60	30.20	27.90	25.10	24.40	403.84	8.30	1.30	7.50	10.70	15.40	14.90
25	30.90	30.90	27.20	26.50	26.50	66.11	7.90	27.25	7.20	12.00	15.40	14.40
26	28.60	30.20	27.20	28.60	368.67	34.10	7.90	1.00	7.20	13.40	15.40	13.50
27	27.20	30.20	27.20	28.60	207.61	27.50	7.50	0.50	8.30	13.50	15.40	14.40
28	28.60	31.70	29.40	55.46	42.90	24.40	7.20	0.50	9.00	12.90	14.50	15.90
29	28.60	33.30	53.49	57.17	25.80	21.10	23.56	7.49	9.00	20.50	13.90	16.50
30	27.90		35.00	47.70	24.40	19.30	15.40	30.16	9.40	27.20	14.90	17.00
31	27.90		35.00		28.60		10.70	21.34		18.10		14.40
MEAN	34.942	29.638	44.067	51.671	46.460	33.057	15.336	8.555	15.573	10.666	15.103	17.161
INCHES	0.154	0.154	0.244	0.277	0.258	0.178	0.085	0.050	0.094	0.055	0.081	0.055
STA AV	0.109	0.108	0.177	0.192	0.302	0.259	0.230	0.083	0.129	0.137	0.126	0.099

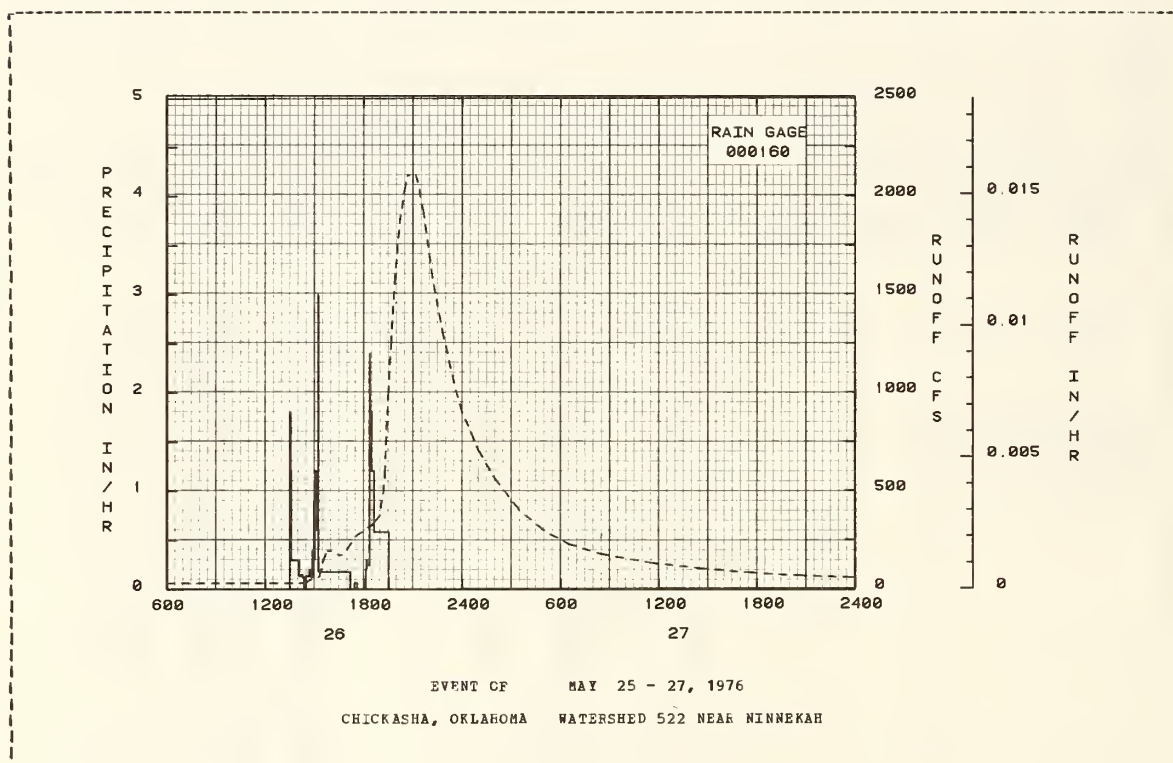
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.0001790. To convert discharge in inches to AC-FT, multiply by 11,083. STA AV values are based on 14 yr (1963-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASPA, OKLAHOMA WATERSHED 522 NEAR MINNEKAH												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 25 - 27, 1976												
BG 000160			EG 000160				5-25	2400	31.700	0.0		
5-26	0.0		5-26	310	0.0	0.0	5-26	1423	33.300	0.0035		
5-25		0.014		1330	0.0	0.02		1448	51.100	0.0036		
				1332	1.8000	0.08		1518	66.200	0.0038		
				1334	1.2000	0.12		1530	159.400	0.0040		
WATERSHED CONDITIONS:				1335	1.2000	0.14		1541	183.100	0.0042		
From a revised 1974 survey;				1404	0.2857	0.26		1548	155.600	0.0044		
sowed crop - 15%; row crop -				1413	0.1333	0.30		1600	154.200	0.0047		
2%; alfalfa - 1%; pasture				1417	0.1500	0.31		1630	174.900	0.0053		
and range - 66%; miscel-				1422	0.1200	0.32		1641	176.300	0.0056		
laneous - 16%.				1428	0.0	0.32		1700	205.600	0.0060		
				1441	0.1335	0.35		1730	271.600	0.0069		
				1447	0.2000	0.37		1830	327.500	0.0092		
				1452	0.1200	0.36		1900	376.800	0.0105		
				1458	0.4000	0.42		1911	494.100	0.0111		
				1500	0.9000	0.45		1918	550.198	0.0115		
				1502	0.3000	0.46		1923	816.096	0.0120		
				1505	0.8000	0.50		1930	996.795	0.0126		
				1506	1.2000	0.52		1941	1290.999	0.0143		
				1508	0.6000	0.54		1953	1565.656	0.0165		
				1511	1.0000	0.59		2011	1867.299	0.0203		
				1513	0.9000	0.62		2030	2031.599	0.0249		
				1514	3.0000	0.67		2041	2106.398	0.0277		
				1711	0.1744	1.01		2046	2108.398	0.0296		
				1728	0.0	1.01		2111	2105.100	0.0356		
				1737	0.0667	1.02		2118	2070.500	0.0374		
				1755	0.0	1.02		2141	1850.098	0.0431		
				1807	0.0	1.02		2211	1585.099	0.0455		
				1810	0.2000	1.03		2248	1307.996	0.0562		
				1812	0.3000	1.04		2330	1048.058	0.0623		

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000007457.

1976			SELECTED RUNOFF EVENT								CHICKASHA, OKLAHOMA WATERSHED 522 NEAR NINNEKAH							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF											
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.								
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)								
EVENT OF MAY 25 - 27, 1976 (CONTINUED)																		
5-26			1822		0.2400	1.08	5-26	2400	897.598	0.0660								
			1823		2.3984	1.12	5-27	100	703.799	0.0719								
			1828		1.8000	1.27		200	559.198	0.0766								
			1838		1.2000	1.47		330	399.100	0.0820								
			1932		0.5778	1.95		500	296.000	0.0859								
									630	226.300	0.0888							
									830	175.100	0.0918							
									1130	131.100	0.0952							
									1500	98.500	0.0982							
									1800	77.500	0.1002							
									2100	63.900	0.1018							
									2400	56.000	0.1031							

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00007457.



LOCATION: East Bitter Creek watershed above U.S. Highway 62 bridge at Tabler, in Grady County, Okla.; tributary to Washita River; Ped River Basin. GAGING STATION--SW1/4 sec. 27, T. 7 N., R. 6 W., lat. 35 deg. 05 min. N., long 97 deg. 50 min. W., at Tabler, Okla., at U.S. highway 62 bridge.

AREA: 22530.00 acres 35.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							CHICKASRA, OKLAHOMA WATERSHED 512 AT TABLER																	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
1976	P	0.0	0.32	3.05	3.51	1.81	2.76	3.50	1.73	2.79	2.17	0.13	0.57	22.34										
	Q	0.161	0.147	0.233	0.182	0.130	0.108	0.158	0.035	0.050	0.048	0.063	0.077	1.393										
STA AV	P	0.92	1.24	2.00	2.91	3.98	3.32	2.49	3.05	4.05	2.72	1.90	1.04	29.62										
	Q	0.145	0.150	0.276	0.345	0.541	0.471	0.146	0.172	0.198	0.204	0.205	0.135	2.988										
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																								
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days						
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.					
1976		7-16	0.011	7-16	0.011	7-16	0.021	7-15	0.046	7-15	0.064	7-15	0.097	7-15	0.111	7-14	0.135							
MAXIMUMS FOR PERIOD OF RECORD																								
		5-24	0.203	5-24	0.203	5-24	0.392	5-24	0.888	5-24	1.013	5-24	1.090	5-24	1.147	5-31	2.221							
		1973		1973		1973		1973		1973		1973		1973		1973								

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 7%; alfalfa - 2%; pasture and range - 83%; miscellaneous - 8%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.16-8 (Topography) and p. 69.7-21 (Composite). Precipitation records began Oct. 1961; runoff records began Aug. 1963. STA AV (P) values are a Thiessen weighted average of 10 gages for 1961-66, 31 gages for 1967-74, and 27 gages for 1975-76. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976		DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLE							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0		
4	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.02	0.0	0.08	0.0	0.0		
5	0.0	0.32	0.0	0.0	0.24	0.0	0.0	0.99	0.0	0.11	0.0	0.46		
6	0.0	0.0	0.0	0.0	0.0 T	0.18	0.0	0.17	0.0	0.0	0.0	0.11		
7	0.0	0.0	1.05	0.30	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0		
8	0.0	0.0	1.15	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.05	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.10	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.10	0.0		
12	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	1.24	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.80	0.0	0.02	0.0		
14	0.0	0.0	0.0	0.0 T	0.0	0.0	0.04	0.0	0.01	0.0	0.01	0.0		
15	0.0	0.0	0.0	0.0	0.80	0.0	0.0	2.60	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.17	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.02	0.0	0.16	0.0	0.0	0.0	0.03	0.0	0.0		
19	0.0	0.0	0.0	0.94	0.0	0.0	0.0	0.0	0.01	0.0 T	0.0	0.0		
20	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.40	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.04	0.73	0.0	0.14	0.0	0.12	0.0	0.0		
24	0.0	0.0	0.02	0.0	0.0	1.07	0.0	0.0 T	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0	0.05	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.03	0.04	0.0	0.0		
28	0.0	0.0	0.19	0.97	0.0	0.0	0.59	0.0	0.0	0.0 T	0.0	0.0		
29	0.0	0.0	0.31	0.0	0.0 T	0.0	0.0	0.06	0.0	1.52	0.0	0.0		
30	0.0	0.0	0.0	0.13	0.15	0.0	0.0	0.0	0.0	0.03	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.35	0.0	0.0	0.0	0.0		
TOTAL	0.0	0.32	3.05	3.51	1.81	2.76	3.50	1.73	2.79	2.17	0.13	0.57		
STA AV	0.92	1.24	2.00	2.91	3.98	3.32	2.49	3.05	4.05	2.72	1.90	1.04		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. STA AV values are a Thiessen weighted average of 10 gages for 1961-66, 31 gages for 1967-74, and 27 gages for 1975 and 1976. STA AV values are based on 16 yr for total period of record (1961-76).

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLER												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	5.670	4.580	4.870	4.730	4.580	3.150	1.410	1.090	1.090	1.280	2.040	2.310
2	5.340	4.580	5.160	4.580	4.290	2.820	1.410	1.030	0.920	1.090	1.950	2.310
3	5.030	4.580	5.160	4.430	4.020	2.710	1.340	0.980	0.770	1.090	1.950	2.410
4	5.030	4.580	5.670	4.430	4.020	2.710	1.410	0.920	0.640	1.090	1.870	2.410
5	4.730	5.340	5.340	4.430	4.020	2.610	1.480	1.285	0.480	1.280	1.790	2.510
6	5.340	5.030	5.340	4.580	4.870	3.510	1.410	7.566	0.420	1.280	1.870	3.630
7	3.890	4.870	6.171	5.340	4.430	3.040	1.280	1.710	0.360	1.340	1.790	2.610
8	4.150	5.180	17.998	5.500	4.020	2.710	1.280	1.210	0.628	1.630	1.790	2.310
9	4.580	5.030	18.202	4.580	3.890	2.510	1.150	1.090	2.495	1.560	1.790	2.310
10	5.670	4.870	7.690	4.290	4.020	2.220	1.150	0.980	0.640	1.340	1.870	2.310
11	5.840	5.030	6.720	4.150	4.020	2.040	1.210	0.870	0.560	1.090	1.870	2.310
12	5.180	5.180	6.540	4.150	3.890	1.950	1.410	0.820	1.644	0.980	1.870	2.310
13	5.340	5.030	5.670	4.150	4.290	2.610	1.210	0.820	13.979	0.980	1.870	2.310
14	5.030	5.030	5.500	4.290	3.890	3.890	1.090	0.600	2.610	0.920	1.950	2.310
15	4.870	4.870	5.340	6.540	3.760	2.220	34.845	0.560	1.480	0.920	1.950	2.310
16	4.870	5.180	5.340	7.100	3.510	2.040	66.664	0.640	1.280	0.920	2.130	2.310
17	5.030	5.030	5.340	5.340	3.270	1.950	7.917	1.090	1.280	0.920	2.130	2.310
18	5.030	4.730	5.340	5.180	2.920	2.510	3.150	0.820	1.340	0.920	2.220	2.310
19	5.030	4.730	5.340	20.446	2.920	2.130	3.270	0.770	1.340	1.030	2.220	2.310
20	4.730	4.870	4.870	11.020	2.920	1.950	2.510	0.820	1.410	1.030	2.220	2.220
21	4.730	4.730	4.870	6.010	2.920	1.790	1.560	0.820	1.280	1.150	2.040	2.220
22	4.870	4.430	4.870	4.870	2.920	1.630	1.150	0.640	1.210	1.150	2.040	2.220
23	4.870	4.430	4.870	4.730	4.730	1.703	0.980	0.920	1.150	1.710	2.130	2.310
24	4.870	4.430	4.870	4.430	3.630	30.830	0.920	0.520	1.090	1.790	2.040	2.310
25	4.730	4.430	6.720	4.290	3.380	4.020	0.820	0.536	1.030	1.560	2.220	2.310
26	4.580	4.580	11.620	4.150	5.833	3.270	0.770	1.576	1.030	1.480	2.310	2.310
27	4.580	4.730	11.360	4.020	6.346	2.610	0.680	0.450	1.150	1.560	2.040	2.310
28	4.870	4.730	11.100	8.639	4.430	2.130	0.730	0.360	1.280	1.630	1.950	2.310
29	4.730	4.730	11.360	7.360	3.760	1.710	2.324	0.390	1.280	3.615	2.040	2.220
30	4.730		7.100	4.870	3.380	1.410	1.410	0.520	1.280	4.430	2.040	2.220
31	4.730		4.580		4.430		1.280	0.820		2.310		1.950
MEAN	4.9248	4.8117	7.1277	5.7541	3.9776	3.4127	4.8135	1.0717	1.5716	1.4540	1.9997	2.3490
INCHES	0.151	0.147	0.233	0.182	0.130	0.108	0.158	0.035	0.050	0.048	0.063	0.077
STA AV	0.145	0.150	0.276	0.345	0.541	0.471	0.146	0.172	0.198	0.204	0.205	0.135

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001056. To convert discharge in inches to AC-FT, multiply by 1,878. STA AV values are based on 14 yr (1963-76) record period.

LOCATION: Winter Creek watershed above county farm to market road bridge North of Alex in Grady County, Okla., tributary to Washita River; Red River Basin. GAGING STATION--NE 1/4 sec. 18, T. 6 N., E. 5 W., lat. 35 deg. 00 min., long. 97 deg. 46 min., 5 miles North and 1 mile East of Alex, Okla., about 1,000 feet downstream from County section line farm to market road bridge over Winter Creek.

AREA: 21310.00 acres 33.30 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLE									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1976	P	0.0	0.29	2.75	3.98	1.94	2.93	4.93	1.86	2.78	2.15	0.14	0.59	24.34		
	Q	0.152	0.129	0.175	0.216	0.130	0.115	0.568	0.075	0.059	0.061	0.076	0.085	1.841		
STA AV	P	1.06	1.19	1.78	2.93	4.26	3.04	2.48	2.70	4.22	2.71	1.92	1.12	29.40		
	Q	0.188	0.167	0.241	0.294	0.695	0.370	0.178	0.129	0.267	0.250	0.295	0.159	3.295		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
		Maximum Discharge Date	1 Hour Date	2 Hours Date	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date							
1976		7-15 0.061	7-15 0.057	7-15 0.104	7-15 0.194	7-15 0.235	7-15 0.318	7-15 0.395	7-15 0.609							
MAXIMUMS FOR PERIOD OF RECORD																
		5-10 0.207	5-24 0.188	5-22 0.340	5-22 0.642	5-22 0.870	5-22 1.059	5-22 1.412	5-22 2.200							
		1964	1973	1975	1975	1975	1975	1975	1975							

NOTES: Watershed conditions: from a revised 1974 survey; sowed crop - 9%; row crop - 1%; alfalfa - 1%; pasture and range - 82% and miscellaneous - 7%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.17-8 (Topography) and p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 9 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Oct. 1963. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLE													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0														
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
3	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0														
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0														
5	0.0	0.29	0.0	0.0	0.29	0.0	0.0	0.97	0.0	0.08	0.0	0.42															
6	0.0	0.0	0.0	0.0	0.01	0.24	0.0	0.24	0.0	0.0	0.0	0.15															
7	0.0	0.0	1.05	0.32	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0															
8	0.0	0.0	0.96	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0															
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0															
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02															
11	0.0	0.0	0.24	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.10	0.0															
12	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	1.24	0.0	0.0	0.0															
13	0.0	0.0	0.0	0.0	0.0	0.37	0.01	0.0	0.79	0.0	0.02	0.0															
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.02	0.0															
15	0.0	0.0	0.0	0.76	0.0	0.04	4.05	0.0	0.0	0.04	0.0	0.0															
16	0.0	0.0	0.0	0.19	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0															
17	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0															
18	0.0	0.0	0.0	0.01	0.0	0.17	0.0	0.0	0.0	0.04	0.0	0.0															
19	0.0	0.0	0.0	1.27	0.0	0.0	0.0	0.0	0.01	0.03	0.0	0.0															
20	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
22	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
23	0.0	0.0	0.0	0.0	0.09	1.00	0.0	0.22	0.0	0.12	0.0	0.0															
24	0.0	0.0	0.0	0.0	0.0	1.11	0.0	0.03	0.0	0.0	0.0	0.0															
25	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
26	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.06	0.0	0.0															
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.03	0.0	0.0															
28	0.0	0.0	0.10	1.10	0.0	0.0	0.61	0.0	0.0	0.01	0.0	0.0															
29	0.0	0.0	0.20	0.0	0.01	0.0	0.0	0.07	0.0	1.44	0.0	0.0															
30	0.0	0.0	0.0	0.12	0.39	0.0	0.0	0.0	0.0	0.02	0.0	0.0															
31	0.0		0.0		0.17		0.0	0.33		0.0		0.0															
TOTAL	0.0	0.29	2.75	3.98	1.94	2.93	4.93	1.86	2.78	2.15	0.14	0.59															
STA AV	1.06	1.19	1.78	2.93	4.26	3.04	2.48	2.70	4.22	2.71	1.92	1.12															

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69-007) of this publication. Precipitation values are a Thiessen weighted average of 9 rain gages on the watershed. STA AV values are based on 16 yr (1961-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLE												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	5.42	4.21	2.73	2.50	8.18	4.03	1.25	1.86	1.25	1.17	2.50	2.50
2	5.00	4.21	2.73	2.27	6.59	3.24	1.33	1.96	1.10	1.10	2.27	2.50
3	5.00	4.03	3.51	2.17	5.42	2.86	1.41	1.86	0.96	1.17	2.27	2.50
4	4.79	4.03	3.65	2.50	4.79	2.50	1.50	1.77	0.89	1.25	2.27	2.50
5	4.79	5.00	3.65	2.86	4.40	2.27	1.50	6.65	0.77	1.33	2.17	2.73
6	4.59	5.21	3.51	2.98	5.87	5.31	1.41	18.09	0.77	1.33	2.27	3.85
7	4.03	4.59	4.99	3.85	4.79	2.86	1.17	7.35	0.71	1.50	2.06	2.98
8	2.98	4.59	14.59	4.59	3.85	2.38	1.17	3.38	0.85	1.67	1.96	2.73
9	3.24	4.59	12.89	4.03	3.65	2.06	1.17	2.38	2.06	1.67	1.96	2.50
10	4.59	4.59	9.36	3.65	3.65	1.86	1.17	1.96	1.10	1.58	1.96	2.38
11	5.00	4.59	8.76	3.38	3.51	1.58	1.25	1.77	0.83	1.50	2.17	2.50
12	4.59	4.40	9.06	3.38	3.65	1.58	1.17	1.58	1.10	1.41	2.27	2.50
13	4.59	4.40	6.59	3.38	4.03	1.67	1.03	1.17	11.77	1.41	2.27	2.50
14	4.40	4.40	6.10	3.38	3.65	1.67	1.10	0.96	2.50	1.33	2.27	2.38
15	4.40	4.21	5.64	5.87	3.38	1.50	215.46	0.96	2.17	1.33	2.27	2.38
16	4.40	4.21	5.21	6.59	3.24	1.10	113.21	0.89	1.96	1.33	2.27	2.38
17	4.40	4.21	4.59	5.42	2.98	1.03	89.13	0.96	1.77	1.41	2.38	2.38
18	4.40	4.03	4.40	4.79	2.73	1.17	34.78	0.96	1.77	1.41	2.38	2.38
19	4.40	3.85	4.21	24.80	2.50	1.03	23.43	0.77	1.77	1.67	2.38	2.38
20	4.21	3.85	4.21	16.47	2.38	0.83	13.95	0.77	1.77	1.67	2.38	2.38
21	4.21	4.03	3.85	11.34	2.06	0.83	9.06	0.71	1.67	1.67	2.27	2.27
22	4.21	3.38	3.65	9.36	1.77	0.77	6.34	0.71	1.58	1.67	2.27	2.27
23	4.21	2.98	3.51	7.62	2.38	1.20	5.00	0.77	1.50	1.86	2.27	2.50
24	4.40	2.98	3.38	6.84	2.06	31.90	4.03	0.71	1.50	1.96	2.27	2.38
25	4.40	2.98	3.38	5.42	2.17	8.13	3.38	1.03	1.50	1.86	2.27	2.27
26	4.40	2.98	3.24	4.79	4.03	5.64	2.73	0.71	1.50	1.86	2.50	2.27
27	4.59	3.11	3.11	4.21	4.21	4.40	2.38	0.66	1.50	1.96	2.50	2.27
28	4.03	2.86	2.86	15.58	2.86	3.24	1.86	0.66	1.50	1.96	2.27	2.27
29	4.03	2.73	3.38	10.65	2.86	2.50	2.61	0.71	1.33	4.71	2.27	2.38
30	4.21		3.24	9.06	2.50	1.58	1.96	0.77	1.10	4.21	2.27	2.27
31	4.59		2.73		5.87		1.67	1.50		2.73		2.06
MEAN	4.403	3.973	5.058	6.458	3.742	3.424	16.407	2.161	1.752	1.764	2.263	2.469
INCHES	0.152	0.129	0.175	0.216	0.130	0.115	0.568	0.075	0.059	0.061	0.076	0.085
STA AV	0.188	0.187	0.241	0.294	0.696	0.370	0.178	0.129	0.267	0.250	0.296	0.199

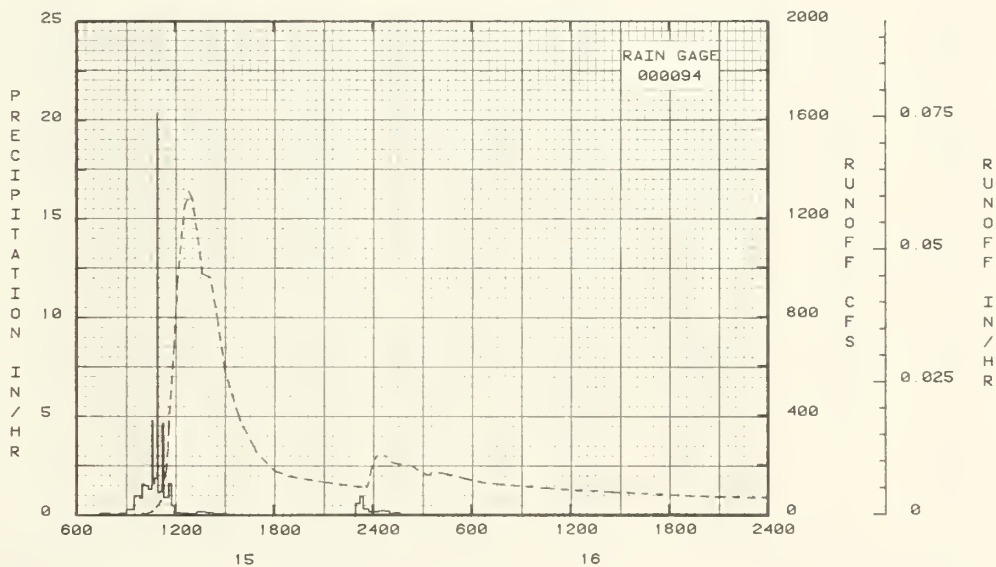
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.001117. To convert discharge in inches to AC-FT, multiply by 1,776. STA AV values are based on 14 yr (1963-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLE												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 15 - 22, 1976												
RG 000094			BG 000094									
7-15	0.0	0.000	7-15	730	0.0	0.0	7-15	723	0.960	0.0		
				807	0.0973	0.06		748	1.250	0.0000		
				840	0.0182	0.07		906	1.250	0.0001		
				905	0.0960	0.11		923	1.960	0.0001		
				922	0.2824	0.19		936	2.060	0.0001		
WATERSHED CONDITIONS:												
From a revised 1974 survey:												
sowed crop - 9%; row crop -												
1%; alfalfa - 1%; pasture												
and range - 82%; and miscel-												
laneous - 7%.												
				932	0.3000	0.24		1018	5.870	0.0003		
				941	0.9333	0.38		1041	15.600	0.0005		
				952	0.9818	0.56		1053	31.340	0.0007		
				1002	0.8400	0.70		1111	58.590	0.0013		
				1010	1.5750	0.91		1118	86.920	0.0017		
				1016	1.5000	1.06		1123	121.420	0.0021		
				1025	1.4667	1.28		1130	177.420	0.0029		
				1038	1.2923	1.56		1136	265.860	0.0039		
				1041	4.8000	1.80		1141	380.958	0.0052		
				1049	1.5750	2.01		1148	503.860	0.0076		
				1058	1.8667	2.29		1200	707.188	0.0132		
				1059	20.4000	2.63		1211	940.388	0.0203		
				1106	1.1143	2.76		1236	1247.280	0.0415		
				1116	1.2000	2.96		1248	1281.340	0.0532		
				1120	4.6500	3.27		1253	1316.039	0.0583		
				1134	0.8571	3.47		1306	1272.770	0.0713		
				1140	0.9000	3.56		1336	1033.590	0.0982		
				1149	1.6000	3.80		1341	975.510	0.1021		
				1203	0.4714	3.91		1411	961.360	0.1246		
				1224	0.0857	3.94		1436	796.198	0.1416		
				1251	0.0667	3.97		1506	574.550	0.1576		
				1322	0.0387	3.99		1600	380.958	0.1776		
				1353	0.1548	4.07		1700	251.680	0.1923		
				1423	0.0800	4.11		1806	175.250	0.2032		
				1446	0.0522	4.13		1900	152.800	0.2101		

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00004654.

1976 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLER						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)
EVENT OF JULY 15 - 22, 1976 (CONTINUED)									
7-15	1459	0.0462	4.14	7-15	2106	129.810	0.2239		
	1510	0.0545	4.15		2323	108.850	0.2366		
	1517	0.0	4.15		2341	109.960	0.2381		
	2300	0.0	4.15		2348	131.030	0.2388		
	2316	0.5625	4.30		2400	197.830	0.2403		
7-16	2328	0.9000	4.48	7-16	11	224.920	0.2421		
	2348	0.2700	4.57		18	238.040	0.2434		
	7	0.1263	4.61		48	238.040	0.2489		
	23	0.1500	4.65		53	232.730	0.2498		
	45	0.1909	4.72		118	207.400	0.2541		
	104	0.1579	4.77		223	195.490	0.2643		
	121	0.0353	4.78		323	156.830	0.2725		
	134	0.0923	4.60		336	166.740	0.2741		
	142	0.0750	4.81		411	166.740	0.2786		
	145	0.0	4.81		453	156.830	0.2839		
					600	137.240	0.2915		
					653	124.980	0.2969		
					800	119.080	0.3033		
					1100	101.240	0.3186		
					1500	85.940	0.3361		
					2100	67.650	0.3575		
					2400	65.110	0.3668		
				7-17	1200	49.130	0.3987		
					2400	41.955	0.4535		
				7-18	1200	34.780	0.4750		
					2400	29.105	0.5138		
				7-19	1200	23.430	0.5285		
					2400	18.690	0.5547		
				7-20	1200	13.950	0.5638		
					2400	11.505	0.5793		
				7-21	1200	9.060	0.5851		
					2400	7.700	0.5952		
				7-22	1200	6.340	0.5991		
					2400	5.670	0.6062		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00004654.



EVENT OF JULY 15 - 22, 1976
CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLER

CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLER

LOCATION: Bedingfield Watershed is the West branch of East Bitter Creek 1.4 miles above East Bitter Creek gaging station, in Grady County, Okla.; tributary to East Bitter Creek; Washita River; Red River Basin. GAGING STATION--SE1/4 sec. 22, T. 7 N., R. 6 W., lat. 35 deg. 03 min. 53 sec. N., long. 97 deg. 49 min. 13 sec. W.

AREA: 12314.00 acres 19.24 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLER											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.0	0.31	3.24	3.53	1.83	2.68	3.14	1.73	2.89	2.12	0.15	0.61	22.23			
	Q	0.179	0.160	0.212	0.220	0.151	0.112	0.107	0.022	0.043	0.042	0.061	0.071	1.380			
STA AV	P	0.99	1.25	2.20	3.07	4.02	3.05	2.70	3.18	4.13	3.08	1.37	1.07	30.10			
	Q	0.160	0.160	0.328	0.421	0.574	0.566	0.178	0.195	0.231	0.238	0.187	0.141	3.378			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge Date	1 Hour Date	1 Hour Vol.	2 Hours Date	2 Hours Vol.	Maximum Volume for Selected Time Interval										
							6 Hours Date	6 Hours Vol.	12 Hours Date	12 Hours Vol.	1 Day Date	1 Day Vol.	2 Days Date	2 Days Vol.	8 Days Date	8 Days Vol.	
1976		7-15	0.006	6-24	0.005	6-24	0.010	6-24	0.022	7-15	0.038	7-15	0.058	7-15	0.064	3- 7	0.108
MAXIMUMS FOR PERIOD OF RECORD																	
		6- 5	0.231	6- 4	0.272	6- 4	0.502	6- 4	0.924	6- 4	1.067	6- 4	1.178	6- 4	1.291	5-30	2.732
		1973		1973		1973		1973		1973		1973		1973		1973	

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 4%; alfalfa - 1%; pasture and range - 90% and miscellaneous - 5%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.15-8 (Topography) and p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 18 gages for record period (1965-74) and 15 gages for 1975-76. Precipitation and runoff records begin Jan. 1965. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1976	DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLER							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	
4	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.02	0.0	0.06	0.0	0.0	
5	0.0	0.31	0.0	0.0	0.23	0.0	0.0	0.88	0.0	0.11	0.0	0.51	
6	0.0	0.0	0.0	0.0	0.01	0.09	0.0	0.19	0.0	0.0	0.0	0.10	
7	0.0	0.0	1.04	0.30	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	
8	0.0	0.0	1.24	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.06	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.01	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.06	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.11	0.0	
12	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	1.19	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.81	0.0	0.03	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.01	0.0	0.01	0.0	
15	0.0	0.0	0.0	0.82	0.0	0.0	2.19	0.0	0.0	0.02	0.0	0.0	
16	0.0	0.0	0.0	0.18	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.02	0.0	0.18	0.0	0.0	0.0	0.03	0.0	0.0	
19	0.0	0.0	0.0	0.91	0.0	0.0	0.0	0.0	0.02	0.0 T	0.0	0.0	
20	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.48	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.03	0.67	0.0	0.12	0.0	0.10	0.0	0.0	
24	0.0	0.0	0.02	0.0	0.0	1.05	0.0	0.0 T	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.04	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.04	0.0	0.0	
28	0.0	0.0	0.23	0.96	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.10	0.0	1.54	0.0	0.0	
30	0.0	0.0	0.0	0.14	0.06	0.0	0.0	0.0	0.0	0.03	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.42	0.0	0.0	0.0	0.0	
TOTAL	0.0	0.31	3.24	3.53	1.83	2.68	3.14	1.73	2.89	2.12	0.15	0.61	
STA AV	0.99	1.25	2.20	3.07	4.02	3.05	2.70	3.18	4.13	3.08	1.37	1.07	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69-007) of this publication. Precipitation values are a Thiessen weighted average of 18 rain gages for record period (1965-74) and 15 gages for 1975-76. STA AV values are based on 12 yr (1965-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLEE												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3.430	2.750	2.970	3.080	3.670	1.760	0.770	0.430	0.430	0.490	1.080	1.140
2	3.310	2.750	2.750	2.970	3.190	1.530	0.770	0.400	0.370	0.460	1.030	1.080
3	2.970	2.750	2.550	2.860	2.650	1.460	0.730	0.400	0.310	0.460	1.030	1.140
4	2.860	2.750	2.860	2.860	2.550	1.330	0.730	0.400	0.200	0.460	0.970	1.140
5	2.750	2.860	2.450	2.970	2.550	1.200	0.770	0.554	0.150	0.530	0.920	1.260
6	3.190	3.670	2.450	2.970	3.310	1.760	0.730	2.889	0.150	0.530	0.970	1.830
7	2.750	2.550	2.779	3.310	2.750	1.600	0.640	0.730	0.150	0.560	0.970	1.390
8	2.450	3.310	9.172	3.800	2.550	1.460	0.600	0.490	0.130	0.680	0.970	1.260
9	2.750	3.030	13.736	3.190	2.550	1.330	0.600	0.430	1.814	0.640	0.970	1.200
10	3.550	3.080	4.910	2.970	2.650	1.200	0.600	0.370	0.370	0.560	1.030	1.200
11	3.430	2.970	4.060	2.860	2.750	1.080	0.640	0.310	0.240	0.530	1.030	1.140
12	3.190	2.970	3.550	2.650	2.550	0.970	0.770	0.310	0.537	0.460	1.030	1.140
13	3.080	2.970	3.080	2.650	2.750	1.140	0.680	0.260	7.490	0.430	1.030	1.140
14	2.970	2.860	3.080	2.650	2.450	2.970	0.640	0.240	1.140	0.430	1.140	1.140
15	3.190	2.860	3.080	3.800	2.260	1.830	17.475	0.220	0.640	0.430	1.140	1.200
16	3.190	2.860	2.750	4.620	2.000	1.260	15.089	0.220	0.530	0.430	1.080	1.140
17	3.080	2.860	2.750	3.670	1.680	0.870	1.760	0.220	0.560	0.430	1.080	1.140
18	3.080	2.750	2.750	3.310	1.680	1.680	1.080	0.200	0.560	0.460	1.140	1.140
19	3.080	2.750	2.750	11.640	1.600	1.390	0.920	0.200	0.600	0.530	1.140	1.140
20	2.970	2.860	2.650	7.685	1.600	0.970	0.920	0.160	0.600	0.530	1.080	1.140
21	2.860	2.550	2.550	4.330	1.600	0.920	0.820	0.160	0.600	0.560	1.080	1.140
22	2.860	2.550	2.550	3.550	1.600	0.870	0.730	0.150	0.530	0.600	1.080	1.200
23	2.970	2.650	2.550	3.080	3.310	0.920	0.730	0.200	0.490	0.912	1.080	1.200
24	2.970	2.650	2.550	2.860	2.360	17.760	0.640	0.180	0.490	0.967	1.080	1.200
25	2.970	2.750	2.860	2.550	2.170	2.360	0.560	0.180	0.490	0.820	1.140	1.200
26	2.750	2.650	2.750	2.550	4.012	2.000	0.560	0.160	0.530	0.770	1.200	1.140
27	2.550	2.750	2.650	2.450	4.361	1.600	0.530	0.150	0.530	0.820	1.030	1.200
28	2.970	2.970	3.080	6.127	2.750	1.140	0.655	0.120	0.600	0.820	0.970	1.140
29	2.970	3.080	4.470	5.627	2.170	0.870	1.888	0.150	0.600	1.840	0.970	1.140
30	2.970	3.430	3.800	3.800	1.920	0.820	0.680	0.220	0.560	2.260	1.080	1.030
31	2.750	3.080	3.080	2.260	2.260	0.490	0.370	0.370	1.260	1.260	0.970	0.970
MEAN	2.9954	2.8572	3.5369	3.7879	2.5242	1.9350	1.7804	0.3701	0.7464	0.6986	1.0513	1.1826
INCHES	0.179	0.160	0.212	0.220	0.151	0.112	0.107	0.022	0.043	0.042	0.061	0.071
STA AV	0.160	0.160	0.328	0.421	0.574	0.566	0.178	0.195	0.231	0.238	0.187	0.141

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001933. To convert discharge in inches to AC-FT, multiply by 1,026. STA AV values are based on 12 yr (1965-76) record period.

CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSET

LOCATION: Salt Creek Watershed 1/2 mile East of U.S. highway 81 near Pocasset, in Grady County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NW1/4 sec. 28, T. 8 N., R. 7 W., lat. 35 deg. 08 min. 44 sec. N, long. 97 deg. 57 min. 30 sec. W.

AREA: 15206.00 acres 23.76 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA				WATERSHED 311 NEAR POCASSET							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.0	0.26	3.05	4.23	2.49	2.16	1.52	1.68	2.42	2.12	0.06	0.23	20.22			
	Q	0.066	0.046	0.155	0.193	0.125	0.029	0.013	0.003	0.038	0.002	0.004	0.007	0.680			
STA AV	P	0.96	0.95	2.20	3.18	4.45	3.20	2.38	2.35	3.53	2.85	1.41	0.90	28.36			
	Q	0.066	0.060	0.217	0.389	0.522	0.370	0.134	0.062	0.066	0.129	0.085	0.028	2.128			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Eate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		9-14	0.009	9-14	0.009	9-14	0.015	4-19	0.035	4-19	0.049	4-19	0.066	4-19	0.082	4-16	0.139
MAXIMUMS FOR PERIOD OF RECORD																	
		4-12	0.320	4-12	0.314	4-12	0.600	4-12	1.201	4-12	1.310	4-12	1.338	4-12	1.424	4- 9	1.720
		1967		1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 36%; row crop - 2%; alfalfa - 2%; pasture and range - 53%; and miscellaneous - 7%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 69.27-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 9 gages on the watershed. Precipitation and runoff records began Jan. 1967. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSET	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	1.13	0.0	0.0	0.0	0.0 T	0.0	0.0	0.05	0.0	0.0		
4	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.08	0.0	0.05	0.0	0.0		
5	0.0	0.25	0.0	0.0	0.19	0.0	0.0	1.18	0.0	0.26	0.0	0.19		
6	0.0	0.0	0.0	0.0 T	0.01	0.12	0.0	0.15	0.0	0.0	0.0	0.04		
7	0.0	0.0	0.53	0.35	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0		
8	0.0	0.0	0.86	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0		
10	0.0	0.01	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.21	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.02	0.0		
12	0.0	0.0	0.0	0.0 T	0.18	0.0	0.0	0.0	1.01	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.87	0.0	0.0 T	0.92	0.0	0.04	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.83	0.0	0.0	1.19	0.0	0.0	0.11	0.0	0.0		
16	0.0	0.0	0.0	0.16	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.05	0.0	0.0		
19	0.0	0.0	0.0	1.21	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.04	0.49	0.0	0.04	0.0	0.06	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.11	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.04	0.0	0.0		
27	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.06	0.03	0.0	0.0		
28	0.0	0.0	0.02	0.88	0.0	0.0	0.25	0.0	0.0	0.01	0.0	0.0		
29	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0 T	0.0	1.28	0.0	0.0		
30	0.0	0.0	0.0	0.20	0.06	0.03	0.0	0.0 T	0.0	0.03	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.12	0.0	0.0	0.0	0.0		
TOTAL	0.0	0.26	3.05	4.23	2.49	2.16	1.52	1.68	2.42	2.12	0.06	0.23		
STA AV	0.96	0.95	2.20	3.18	4.45	3.20	2.38	2.35	3.53	2.85	1.41	0.90		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are Thiessen weighted average of 9 rain gages on the watershed. STA AV values are based on 10 yr (1967-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSET												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.780	2.080	0.850	0.730	3.130	0.980	0.130	0.0	0.0	0.0	0.060	0.110
2	3.260	0.850	0.980	0.910	2.800	0.620	0.090	0.0	0.0	0.0	0.060	0.130
3	2.510	0.680	6.505	1.260	1.780	0.520	0.090	0.0	0.0	0.0	0.080	0.130
4	1.420	0.850	7.934	1.690	1.420	0.440	0.110	0.0	0.0	0.010	0.080	0.110
5	1.260	0.980	4.130	2.080	1.340	0.400	0.110	0.010	0.0	0.010	0.060	0.110
6	1.340	0.910	2.880	1.340	1.510	0.480	0.090	0.564	0.0	0.010	0.060	0.150
7	0.980	0.850	2.400	0.980	1.260	0.480	0.060	1.146	0.0	0.030	0.060	0.130
8	0.790	0.980	11.479	1.420	0.850	0.440	0.050	0.260	0.0	0.0	0.040	0.130
9	0.850	1.110	16.335	0.910	0.910	0.360	0.050	0.040	0.0	0.020	0.050	0.150
10	1.110	0.980	6.630	0.850	0.980	0.320	0.050	0.010	0.0	0.040	0.060	0.110
11	1.260	1.420	4.290	0.910	0.910	0.260	0.050	0.0	0.0	0.040	0.080	0.130
12	1.260	1.110	4.940	0.790	1.780	0.260	0.040	0.0	0.026	0.010	0.080	0.150
13	1.340	0.850	3.000	0.730	1.780	1.121	0.030	0.0	0.556	0.0	0.080	0.170
14	1.340	0.850	2.290	0.680	1.190	1.970	0.030	0.0	19.986	0.0	0.080	0.170
15	1.260	0.980	2.080	1.780	1.110	0.790	0.116	0.0	3.175	0.0	0.080	0.170
16	1.260	1.260	1.880	2.880	0.980	0.400	1.864	0.0	0.200	0.0	0.060	0.170
17	1.190	1.860	1.800	3.000	0.910	0.320	2.926	0.0	0.050	0.0	0.080	0.150
18	1.190	1.190	1.510	3.680	0.790	0.260	1.190	0.0	0.030	0.0	0.060	0.130
19	1.110	1.110	1.780	27.924	0.680	0.230	0.910	0.0	0.040	0.010	0.080	0.130
20	1.040	1.040	1.420	23.215	0.620	0.170	0.320	0.0	0.020	0.010	0.110	0.130
21	0.910	0.910	1.420	7.595	0.570	0.200	0.110	0.0	0.010	0.010	0.080	0.130
22	0.910	0.980	1.260	4.450	0.520	0.200	0.050	0.0	0.010	0.010	0.060	0.130
23	1.040	1.340	1.040	7.530	1.420	0.170	0.030	0.0	0.010	0.040	0.110	0.130
24	1.040	0.680	0.980	3.834	0.910	3.973	0.020	0.0	0.010	0.040	0.090	0.130
25	1.110	0.570	1.110	2.180	0.730	1.340	0.010	0.0	0.040	0.040	0.090	0.130
26	1.190	0.620	1.190	1.690	27.322	0.730	0.010	0.0	0.040	0.040	0.090	0.150
27	1.040	0.680	1.040	1.340	12.141	0.440	0.010	0.0	0.010	0.040	0.090	0.200
28	1.260	0.790	0.980	6.186	3.980	0.320	0.010	0.0	0.010	0.060	0.090	0.200
29	1.260	0.850	1.040	6.700	3.000	0.200	0.010	0.0	0.0	0.320	0.090	0.200
30	2.180		1.190	3.630	1.780	0.150	0.010	0.0	0.0	0.200	0.090	0.200
31	2.400		0.790		1.420		0.0	0.0		0.110		0.200
MEAN	1.3513	1.0131	3.1920	4.1031	2.5846	0.6181	0.2767	0.0655	0.8061	0.0355	0.0760	0.1471
INCHES	0.066	0.046	0.155	0.193	0.125	0.029	0.013	0.003	0.038	0.002	0.004	0.007
STA AV	0.066	0.060	0.217	0.389	0.522	0.370	0.134	0.062	0.066	0.129	0.085	0.028

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001565. To convert discharge in inches to AC-FT, multiply by 1,267. STA AV values are based on 10 yr (1967-76) record period.

CHICKASHA, OKLAHOMA WATERSHED 515 NEAR AMBER

LOCATION: Watershed 515 lies northeast of Amber, in Grady County, Okla.; tributary of West Bitter Creek, Washita River; Red River Basin. GAGING STATION--at county road bridge, NE1/4 sec. 20, T. 8 N., R. 6 W., lat. 35 deg. 09 min. 37 sec.; long. 97 deg. 51 min. 06 sec.

AREA: 1620.00 acres 2.53 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASAW, OKLAHOMA WATERSHED 515 NEAR AMBER													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	0.0	0.33	2.95	4.28	2.56	2.20	1.22	1.76	2.83	2.02	0.08	0.43	20.66					
	Q	0.024	0.019	0.054	0.186	0.039	0.029	0.003	0.002	0.002	0.001	0.004	0.007	0.371					
STA AV	P	1.30	1.19	3.64	3.09	4.77	3.09	2.89	2.62	3.55	2.66	1.25	0.88	30.93					
	Q	0.208	0.246	0.860	0.495	0.912	0.735	0.178	0.184	0.037	0.135	0.179	0.049	4.218					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		4-19	0.034	4-19	0.029	4-19	0.048	4-19	0.084	4-19	0.098	4-19	0.136	4-19	0.145	4-19	0.163		
MAXIMUMS FOR PERIOD OF RECORD																			
		6-2	0.126	6-2	0.114	6-2	0.207	6-2	0.459	6-2	0.678	6-2	0.865	6-1	1.051	5-30	2.318		
1973		1973		1973		1973		1973		1973		1973		1973		1973			

NOTES: Watershed Conditions: The land use in 1975 was sowed crop - 22%; row crop - 9%; timbered pasture - 6%; timber - 3%; pasture - 51%; farmsteads - 3%; farm ponds - 3%; farm roads - 2% and highways - 1%. Precipitation Data obtained from a Thiessen weighted average from rain gages 61, 62 and 69 on or near the watershed. Precipitation records began Oct. 1961. Runoff records began August 1972. STA AV values are based on 4 yr (1973-76) record period. For long-time precipitation records, see National Weather Service Records at Chickasha, OK.

1975	DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA WATERSHED 515 NEAR AMBER							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.04	0.0	0.0	
5	0.0	0.33	0.0	0.0	0.31	0.0	0.0	0.87	0.0	0.11	0.0	0.36	
6	0.0	0.0	0.0	0.0	0.0 T	0.05	0.0	0.25	0.0	0.0	0.0	0.07	
7	0.0	0.0	0.67	0.27	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	
8	0.0	0.0	1.14	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.05	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.05	0.0	
12	0.0	0.0	0.0	0.0	0.10	0.0	0.03	0.0	1.12	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.92	0.0	0.03	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.08	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.79	0.0	0.0	0.79	0.0	0.0	0.08	0.0	0.0	
16	0.0	0.0	0.0	0.19	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.02	0.0	0.0	
19	0.0	0.0	0.0	1.78	0.0	0.0	0.0	0.0	0.03	0.0 T	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.02	0.57	0.0	0.16	0.0	0.08	0.0	0.0	
24	0.0	0.0	0.07	0.0	0.0	0.70	0.0	0.20	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.05	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.02	0.0	0.0	
28	0.0	0.0	0.11	0.83	0.0	0.0	0.20	0.06	0.0	0.01	0.0	0.0	
29	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.03	0.0	1.45	0.0	0.0	
30	0.0	0.0	0.0	0.16	0.36	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.14	0.0	0.0	0.0	0.0	
TOTAL	0.0	0.33	2.95	4.28	2.56	2.20	1.22	1.76	2.83	2.02	0.08	0.43	
STA AV	1.30	1.19	3.64	3.09	4.77	3.09	2.89	2.62	3.55	2.66	1.25	0.88	

NOTES: For daily air temperature in the vicinity, see table for Watershed W-700 (69.007) of this publication. Daily precipitation values Thiessen weighted average from rain gages 61, 62 and 69 on or near the watershed. STA AV values are based on 4 yr (1973-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 515 NEAR AMBER												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.060	0.050	0.050	0.060	0.130	0.050	0.010	0.0	0.0	0.0	0.0	0.010
2	0.050	0.050	0.050	0.050	0.110	0.040	0.010	0.0	0.0	0.0	0.010	0.010
3	0.050	0.050	0.060	0.050	0.090	0.040	0.010	0.0	0.0	0.0	0.010	0.010
4	0.050	0.050	0.050	0.050	0.090	0.040	0.020	0.0	0.0	0.0	0.010	0.010
5	0.060	0.050	0.040	0.050	0.090	0.040	0.020	0.072	0.0	0.0	0.010	0.010
6	0.060	0.040	0.040	0.060	0.200	0.040	0.010	0.051	0.0	0.0	0.010	0.010
7	0.050	0.050	0.070	0.060	0.090	0.040	0.010	0.0	0.0	0.0	0.010	0.010
8	0.050	0.050	1.383	0.060	0.070	0.040	0.010	0.0	0.0	0.0	0.010	0.010
9	0.060	0.050	0.394	0.050	0.070	0.040	0.010	0.0	0.0	0.0	0.010	0.010
10	0.060	0.050	0.150	0.050	0.090	0.040	0.010	0.0	0.0	0.0	0.010	0.010
11	0.060	0.050	0.110	0.050	0.090	0.040	0.010	0.0	0.0	0.0	0.010	0.010
12	0.060	0.050	0.090	0.050	0.090	0.040	0.010	0.0	0.018	0.0	0.010	0.010
13	0.060	0.050	0.070	0.050	0.090	0.070	0.010	0.0	0.149	0.0	0.010	0.010
14	0.050	0.040	0.070	0.050	0.090	0.050	0.010	0.0	0.0	0.0	0.010	0.020
15	0.050	0.050	0.060	0.090	0.090	0.030	0.020	0.0	0.0	0.0	0.0	0.020
16	0.050	0.050	0.060	0.070	0.110	0.030	0.020	0.0	0.0	0.0	0.0	0.020
17	0.050	0.040	0.060	0.070	0.090	0.030	0.010	0.0	0.0	0.0	0.010	0.020
18	0.050	0.040	0.060	0.050	0.090	0.050	0.010	0.0	0.0	0.0	0.010	0.020
19	0.050	0.040	0.060	9.205	0.070	0.040	0.010	0.0	0.0	0.0	0.010	0.020
20	0.050	0.040	0.050	0.866	0.070	0.030	0.0	0.0	0.0	0.0	0.010	0.020
21	0.050	0.040	0.050	0.250	0.060	0.020	0.0	0.0	0.0	0.0	0.010	0.020
22	0.050	0.040	0.050	0.170	0.070	0.020	0.0	0.0	0.0	0.0	0.010	0.020
23	0.050	0.040	0.050	0.130	0.090	0.025	0.0	0.0	0.0	0.0	0.010	0.020
24	0.050	0.040	0.050	0.110	0.050	1.049	0.0	0.0	0.0	0.0	0.010	0.020
25	0.050	0.040	0.050	0.090	0.060	0.020	0.0	0.0	0.0	0.0	0.010	0.020
26	0.050	0.050	0.050	0.090	0.170	0.010	0.0	0.0	0.0	0.0	0.010	0.020
27	0.060	0.050	0.050	0.090	0.070	0.010	0.0	0.0	0.0	0.0	0.010	0.020
28	0.050	0.050	0.060	0.636	0.060	0.010	0.0	0.0	0.0	0.0	0.010	0.020
29	0.060	0.050	0.240	0.170	0.060	0.010	0.0	0.0	0.0	0.036	0.010	0.020
30	0.060		0.060	0.130	0.050	0.010	0.0	0.0	0.0	0.010	0.010	0.020
31	0.050		0.060		0.070		0.0	0.0		0.010		0.010
MEAN	0.0539	0.0466	0.1215	0.4322	0.0877	0.0668	0.0074	0.0039	0.0055	0.0018	0.0090	0.0155
INCHES	0.024	0.019	0.054	0.166	0.039	0.029	0.003	0.002	0.002	0.001	0.004	0.007
STA AV	0.208	0.246	0.660	0.495	0.912	0.735	0.178	0.184	0.037	0.135	0.179	0.049

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.01469. Discharge rating curve estimated for flows greater than 60 CFS. STA AV values are based on 4 yr (1973-76) record period.

CHICKASHA, OKLAHOMA WATERSHED C-1

LOCATION: Grady County, Oklahoma; SW 1/4 sec. 26, R. 7 W., T. 7 N., about 2 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 46 sec. N.; Long. 97 deg. 54 min. 39 sec. W.

AREA: 17.63 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								CHICKASHA, OKLAHOMA WATERSHED C-1									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.0	0.35	3.64	4.56	2.13	2.43	3.00	2.50	2.97	2.16	0.03	0.65	24.82			
	Q	0.0	0.0	0.003	0.583	0.0	0.261	0.329	0.001	0.192	0.0	0.0	0.0	1.370			
STA AV	P	0.93	1.18	2.26	3.06	4.06	2.47	2.60	3.19	3.86	2.93	1.16	0.95	28.63			
	Q	0.084	0.005	0.160	0.171	0.440	0.193	0.427	0.271	0.267	0.390	0.179	0.044	2.631			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
		Date	Rate	Date	Vol.	Date	Vol.	Date	6 Hours	Date	12 Hours	Date	1 Day	Date	2 Days	8 Days	
1976		4-19	0.043	4-19	0.042	4-19	0.082	4-19	0.201	4-19	0.317	4-19	0.561	4-15	0.581	4-12	0.582
MAXIMUMS FOR PERIOD OF RECORD																	
		5-24	0.116	3-10	0.085	3-10	0.164	10-30	0.459	10-2	0.814	10-30	1.504	10-30	2.662	7-22	3.189
		1973		1973		1973		1972		1971		1972		1972		1975	

NOTES: Watershed conditions: Continuous cotton - tillage during fallow period consisted of shredding stalks, disking, chiseling, spring-tooth harrowing and spike-tooth harrowing. Cotton was planted May 21. Tillage during the growing season consisted of rotary hoeing and cultivating. Cotton harvested Nov. 10. Principal drain with less than 0.05 ft. grade per 100 feet was maintained during the growing season by use of field cultivator. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 65.30-1 and 69.30-3. Monthly precipitation values obtained from one recording rain gage, No. 173, located near the 1.5 ft. H-flume. Precipitation and runoff records began January 1, 1965. STA AV values are based on 12 yr (1965-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1976 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED C-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.16	0.0	0.0			
5	0.0	0.35	0.0	0.0	0.35	0.0	0.0	1.31	0.0	0.20	0.0	0.0			
6	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.08			
7	0.0	0.0	1.06	0.23	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0			
8	0.0	0.0	1.31	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.0	0.10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.03	0.0			
12	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	1.42	0.0	0.0	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.48	0.50	0.0	0.83	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.86	0.0	0.0	1.75	0.0	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.11	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
18	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.02	0.0	0.0			
19	0.0	0.0	0.0	2.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	0.0	0.0	0.09	0.60	0.0	0.15	0.0	0.12	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	1.20	0.0	0.53	0.0	0.0	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.02	0.0	0.0			
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.02	0.0	0.0			
28	0.0	0.0	0.11	0.95	0.0	0.0	0.45	0.0	0.0	0.01	0.0	0.0			
29	0.0	0.0	0.85	0.0	0.0	0.0	0.0	0.22	0.0	1.30	0.0	0.0			
30	0.0	0.0	0.0	0.15	0.20	0.0	0.0	0.0	0.0	0.02	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.45	0.0	0.0	0.0	0.0			
TOTAL	0.0	0.35	3.64	4.56	2.13	2.43	3.00	2.50	2.97	2.16	0.03	0.65			
STA AV	0.93	1.18	2.26	3.06	4.06	2.47	2.60	3.19	3.86	2.93	1.16	0.95			

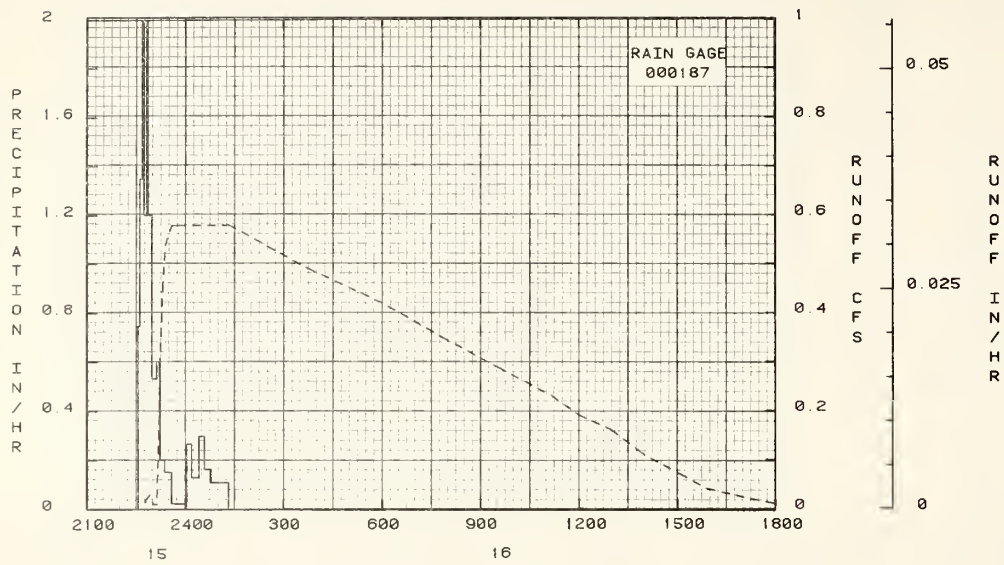
NOTES: Values obtained from one recording rain gage, No. 173. STA AV values are based on 12 yr (1965-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED C-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Cct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.137	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0 T	0.0	0.0	0.018	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0 T	0.0	0.0	0.228	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.390	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.045	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.192	0.0	0.0 T	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0 T	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0001	0.0146	0.0	0.0065	0.0080	0.0	0.0048	0.0	0.0	0.0
INCHES	0.0	0.0	0.003	0.583	0.0	0.261	0.325	0.0	0.132	0.0	0.0	0.0
STA AV	0.084	0.005	0.160	0.171	0.440	0.193	0.427	0.271	0.267	0.390	0.173	0.044

NOTES: To convert discharge in CFS to IN/DAY, multiply by 1.334522. STA AV values are based on 12 yr (1965-76) record period.

1976	SELECTED RUNOFF EVENT					CHICKASHA, OKLAHOMA WATERSHED C-1					
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 15 - 16, 1976											
RG 000167			RG 000187								
7-15	0.0	0.0	7-15	2233	0.0	0.0	7-15	2240	0.0	0.0	
				2237	0.7500	0.03		2245	0.002	0.0	
				2241	1.3500	0.14		2247	0.016	0.0003	
				2244	2.0000	0.24		2255	0.028	0.0002	
				2249	1.2000	0.34		2301	0.013	0.0003	
WATERSHED CONDITIONS: 100% cultivation, continuous dry land cotton. cotton planted May 21.					2252	2.0000	0.44	2307	0.010	0.0003	
					2258	1.2000	0.56	2309	0.071	0.0004	
					2307	0.5333	0.64	2311	0.157	0.0006	
					2313	0.6000	0.70	2313	0.283	0.0010	
					2322	0.2000	0.73	2316	0.454	0.0028	
					2334	0.1500	0.76	2323	0.535	0.0050	
					2400	0.0231	0.77	2335	0.579	0.0113	
					2	0.0	0.77	2400	0.579	0.0247	
					11	0.2667	0.81	7-16	120	0.579	0.0676
					25	0.1286	0.84		345	0.453	0.1397
			35	0.3000	0.85	600	0.416	0.1955			
			46	0.1636	0.92	750	0.346	0.2354			
			119	0.1091	0.98	945	0.283	0.2689			
						1110	0.228	0.2890			
						1200	0.191	0.2988			
						1300	0.157	0.3084			
						1400	0.109	0.3156			
						1505	0.071	0.3213			
						1555	0.041	0.3239			
						1715	0.020	0.3261			
						1840	0.008	0.3272			
						2210	0.004	0.3284			
						2400	0.002	0.3287			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.05562.



EVENT OF JULY 15 - 16, 1976
CHICKASHA, OKLAHOMA WATERSHED C-1

CHICKASHA, OKLAHOMA WATERSHED C-3

LOCATION: Grady County, Oklahoma; NE 1/4 sec. 35, E. 7 W., T. 7 N., about 2-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 25 sec. N.; Long. 97 deg. 54 min. 13 sec. W.

AREA: 44.26 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								CHICKASHA, OKLAHOMA WATERSHED C-3									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.0	0.36	3.37	4.27	1.92	2.59	3.20	3.22	3.01	2.15	0.03	0.60	24.72			
	Q	0.0	0.0	0.038	0.429	0.0	0.345	0.396	0.127	0.350	0.001	0.0	0.0	1.685			
STA AV	P	0.90	1.20	2.28	3.05	3.91	2.25	2.83	2.66	3.77	2.91	1.11	0.89	27.76			
	Q	0.084	0.325	0.173	0.395	0.847	0.451	0.631	0.409	0.434	0.495	0.078	0.017	4.040			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		6-24	0.120	6-24	0.111	6-24	0.195	6-24	0.338	6-24	0.345	7-15	0.395	7-14	0.395	7- 8	0.395
MAXIMUMS FOR PERIOD OF RECORD																	
		5-31	0.556	5-31	0.451	5-24	0.729	5-24	1.498	5-24	1.829	10-30	2.227	10-30	2.585	7-23	3.358
		1971		1971		1973		1973		1973		1972		1972		1975	

NOTES: Watershed conditions: 100% cropland, previously graded and smoothed for row irrigation. Entire watershed moldboard plowed 12-14 inches deep in early Jan. 1976. Spring preplanting tillage consisted of disking, spring-tooth harrowing, incorporating fertilizer and herbicide. Entire watershed planted to cotton during late May. Tillage during growing season consisted of rotary hoeing and cultivating with sweep type cultivator as needed. Watershed irrigated in late July, mid and late August, 1976. Cotton harvested in early Nov. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp.69.32-1 and 69.32-3. Precipitation data obtained from two recording weighing type rain gages for record period 1965-1974 and one gage (No. 186) for 1975-76. Precipitation and runoff records began September 1, 1965. STA AV values are based on 12 yr (1965-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1976 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED C-3	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.14	0.0	0.0		
5	0.0	0.0	0.36	0.0	0.0	0.32	0.0	0.0	1.48	0.0	0.21	0.0	0.50		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.10		
7	0.0	0.0	0.0	1.04	0.26	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0		
8	0.0	0.0	0.0	1.23	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.03	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	1.39	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.66	0.0	0.80	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.80	0.0	0.0	1.74	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.04	0.0	0.0		
19	0.0	0.0	0.0	0.0	1.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.06	0.70	0.0	0.10	0.0	0.14	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	1.35	0.0	0.84	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.02	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.02	0.0	0.0		
28	0.0	0.0	0.0	0.16	0.85	0.0	0.0	0.60	0.0	0.0	0.02	0.0	0.0		
29	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.16	0.0	1.30	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.14	0.19	0.0	0.0	0.0	0.0	0.02	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0		
TOTAL		0.0	0.36	3.37	4.27	1.92	2.59	3.20	3.22	3.01	2.15	0.03	0.60		
STA AV		0.90	1.20	2.28	3.05	3.91	2.25	2.83	2.66	3.77	2.91	1.11	0.89		

NOTES: Values obtained from two recording weighing type rain gages for record period 1965-74 and one gage (186) for 1975-76. STA AV values are based on 12 yr (1965-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED C-3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.081	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.142	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.095	0.0	0.0	0.0
8	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0
9	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.095	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.534	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
15	0.0	0.0	0.0	0.001	0.0	0.0	0.275	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.002	0.0	0.0	0.460	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.716	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.642	0.0	0.004	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.071	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.054	0.001	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0023	0.0266	0.0	0.0214	0.0237	0.0076	0.0217	0.0	0.0	0.0
INCHES	0.0	0.0	0.038	0.429	0.0	0.345	0.396	0.127	0.350	0.001	0.0	0.0
STA AV	0.084	0.025	0.173	0.395	0.847	0.451	0.631	0.409	0.434	0.495	0.078	0.017

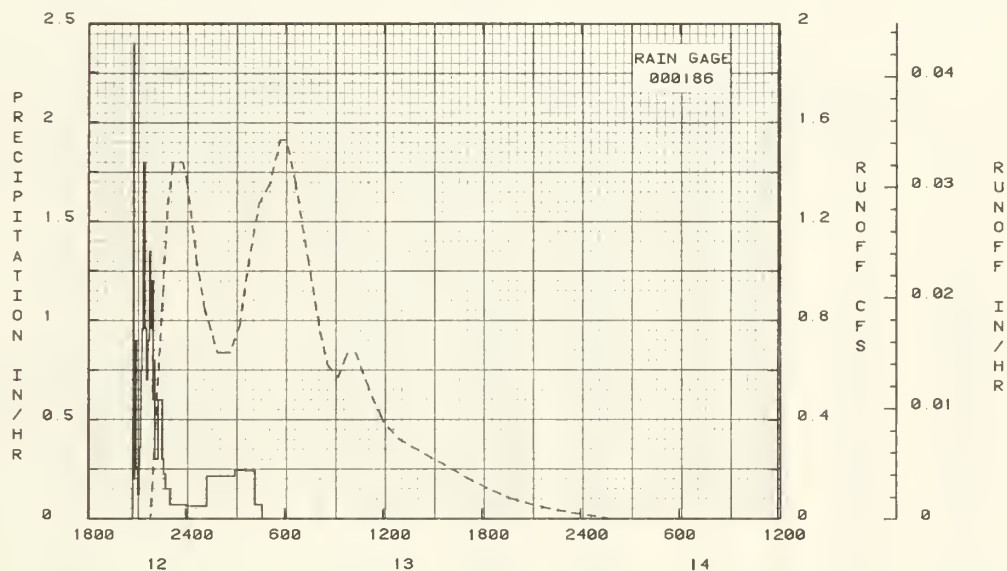
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.537769. STA AV values are based on 12 yr (1965-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED C-3										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 12 - 14, 1976										
RG 000186			RG 000186							
9-12	0.0	0.0	9-12	2045	0.0	0.0	9-12	2148	0.0	0.0
				2046	2.4000	0.04		2151	0.022	0.0000
				2052	0.2000	0.06		2157	0.155	0.0002
				2056	0.9000	0.12		2208	0.393	0.0013
				2103	0.2571	0.15		2233	0.909	0.0074
WATERSHED CONDITIONS: 100% cultivation, continuous irrigated cotton. Plowed 8-10 inches deep in January, tandem disk 4-6 inches deep in March, and spring- toothed 3-5 inches deep in April and May. Cotton planted May 24.				2108	0.1200	0.16		2250	1.274	0.0144
				2113	0.3600	0.19		2310	1.443	0.0245
				2117	0.7500	0.24		2344	1.443	0.0428
				2122	0.9600	0.32		2400	1.357	0.0512
				2126	1.8000	0.44	9-13	35	1.046	0.0669
				2129	1.0000	0.49		105	0.845	0.0775
				2134	0.9600	0.57		153	0.671	0.0911
				2140	0.7000	0.64		238	0.671	0.1023
				2144	0.9000	0.70		314	0.784	0.1121
				2148	1.3500	0.79		349	1.046	0.1241
				2153	0.9600	0.87		424	1.274	0.1392
				2157	1.2000	0.95		506	1.357	0.1599
				2202	0.6000	1.00		540	1.532	0.1782
				2205	0.8000	1.04		603	1.532	0.1914
				2217	0.3000	1.10		636	1.357	0.2092
				2231	0.6000	1.24		723	1.046	0.2303
				2237	0.3000	1.27		804	0.784	0.2443
				2245	0.2250	1.30		835	0.618	0.2524
				2301	0.1500	1.34		913	0.568	0.2608
				2400	0.0712	1.41		948	0.671	0.2689
			9-13	116	0.0632	1.49		1018	0.671	0.2764
				259	0.2155	1.86		1108	0.521	0.2876
				338	0.2462	2.02		1200	0.393	0.2964
				413	0.2400	2.16		1258	0.321	0.3042
				438	0.0720	2.19		1434	0.257	0.3145

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.02241.

1976 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED C-3							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF SEPTEMBER 12 - 14, 1976 (CONTINUED)										
							9-13	1728	0.155	0.3279
								1948	0.083	0.3341
								2208	0.037	0.3373
								2400	0.016	0.3384
							9-14	158	0.005	0.3388
								348	0.003	0.3390
								552	0.001	0.3391
								648	0.001	0.3391
								903	0.0	0.3391
								1028	0.0	0.3391
								1200	0.0	0.3391

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.02241.



EVENT OF SEPTEMBER 12 - 14, 1976
CHICKASHA, OKLAHOMA WATERSHED C-3

CHICKASHA, OKLAHOMA WATERSHED C-4

LOCATION: Grady County, Oklahoma; NE 1/4, sec. 35, R. 7 W., T. 7 N., about 2-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 23 sec. N.; Long. 97 deg. 54 min. 13 sec. W.

AREA: 29.93 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED C-4	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P	0.0	0.34	3.36	4.17	1.87	2.53	3.16	3.14	2.89	2.13	0.03	0.62	24.24	
	Q	0.0	0.0	0.076	0.684	0.0	0.116	0.282	0.518	0.436	0.001	0.0	0.0	2.112	
STA AV	P	0.90	1.19	2.30	3.03	3.92	2.30	2.80	2.67	3.76	2.89	1.09	0.50	27.76	
	Q	0.103	0.331	0.135	0.304	0.781	0.336	0.602	0.361	0.321	0.506	0.080	0.011	3.570	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge Date Rate	1 Hour Date Vol.	2 Hours Date Vol.	Maximum Volume for Selected Time Interval 6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.						
1976		4-19 0.220	4-19 0.193	4-19 0.346	4-19 0.523	4-19 0.534	4-19 0.596	4-19 0.596	4-12 0.598						
MAXIMUMS FOR PERIOD OF RECORD															
		5-31 0.489	5-24 0.462	5-24 0.909	5-24 1.826	5-24 1.873	10-30 2.663	10-30 3.182	7-24 3.554						
		1971	1973	1973	1973	1973	1972	1972	1975						

NOTES: Watershed conditions: 100% cultivation, continuous irrigated cotton. Entire watershed disked and moldboard plowed Jan. and Feb. 1976. Spring tillage consisted of incorporating fertilizer and herbicide, disking and spring-tooth harrowing. Cotton planted May 24. Tillage during growing season consisted of rotary hoeing and cultivating. Irrigated in late July, mid August, and early Sept. Cotton harvested early Nov. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.33-1 and 69.33-3. Monthly precipitation data obtained from Thiessen weighted values from two recording weighing type rain gages, Nos. 186 and 187. Precipitation and runoff records began September 1, 1965. STA AV values are based on 12 yr (1965-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, OK.

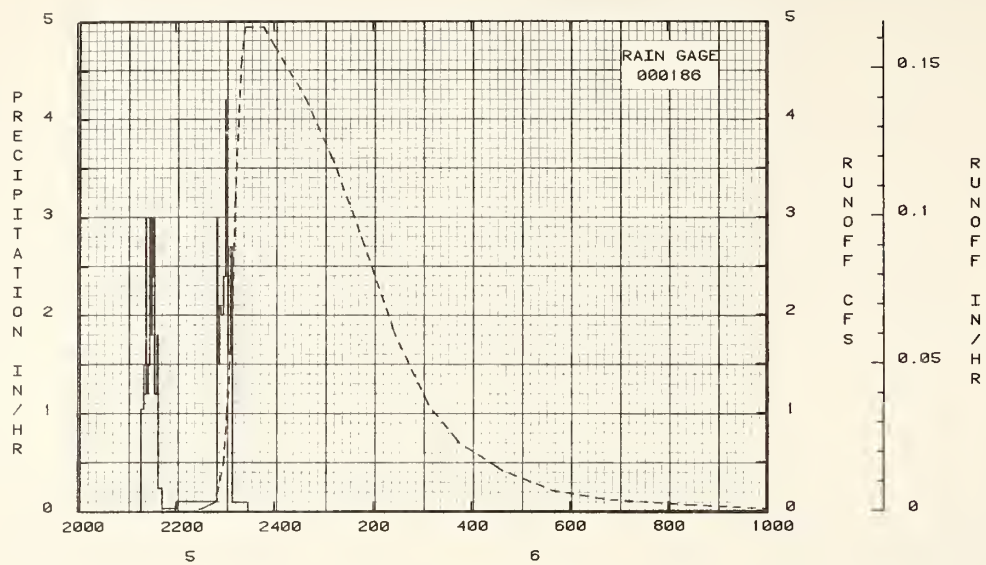
1976 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED C-4	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.14	0.0	0.0			
5	0.0	0.34	0.0	0.0	0.33	0.0	0.0	1.44	0.0	0.21	0.0	0.52			
6	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.10			
7	0.0	0.0	1.05	0.24	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0			
8	0.0	0.0	1.24	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.0	0.16	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.03	0.0			
12	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	1.35	0.0	0.0	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.44	0.62	0.0	0.79	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.79	0.0	0.0	1.71	0.0	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.11	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
18	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.03	0.0	0.0			
19	0.0	0.0	0.0	1.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	0.0	0.0	0.07	0.70	0.0	0.12	0.0	0.14	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	1.31	0.0	0.77	0.0	0.0	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.02	0.0	0.0			
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.02	0.0	0.0			
28	0.0	0.0	0.17	0.86	0.0	0.0	0.63	0.0	0.0	0.02	0.0	0.0			
29	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.15	0.0	1.31	0.0	0.0			
30	0.0	0.0	0.0	0.13	0.17	0.0	0.0	0.0	0.0	0.02	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.45	0.0	0.0	0.0	0.0			
TOTAL	0.0	0.34	3.36	4.17	1.87	2.53	3.16	3.14	2.89	2.13	0.03	0.62			
STA AV	0.90	1.19	2.30	3.03	3.92	2.30	2.80	2.67	3.76	2.89	1.09	0.50			

NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 186 and 187. STA AV values are based on 12 yr (1965-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASAW, OKLAHOMA WATERSHED C-4												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.174	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.465	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.075	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.465	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.109	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.002	0.0	0.0	0.285	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.749	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.146	0.0	0.002	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.108	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.093	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0031	0.0287	0.0	0.0049	0.0114	0.0210	0.0183	0.0	0.0	0.0
INCHES	0.0	0.0	0.076	0.684	0.0	0.116	0.282	0.518	0.436	0.001	0.0	0.0
STA AV	0.103	0.031	0.135	0.304	0.781	0.336	0.602	0.361	0.321	0.506	0.090	0.011

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.795244. STA AV values are based on 12 yr (1965-76) record period.

1976	SELECTED RUNOFF EVENT					CHICKASHA, OKLAHOMA WATERSHED C-4						
ANTECEDENT CONDITIONS			PAINFALL			RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 5 - 6, 1976												
RG 000186			RG 000186									
8- 5	0.0	0.0	8- 5	2117	0.0	0.0	3- 5	2213	0.0	0.0		
				2121	1.0500	0.07		2220	0.005	0.0000		
				2123	1.5000	0.12		2233	0.058	0.0002		
				2124	3.0000	0.17		2246	0.102	0.0007		
				2126	1.2000	0.21		2258	0.492	0.0024		
WATERSHED CONDITIONS:				2126	1.5000	0.28		2303	1.082	0.0045		
100% cultivation, continuous				2129	3.0500	0.31		2309	1.987	0.0096		
irrigated cotton. Seedbed				2131	1.8000	0.37		2313	3.260	0.0154		
prepared by plowing, disk-				2132	3.0000	0.42		2320	4.576	0.0306		
ing, and harrowing. Cotton				2133	2.4000	0.46		2325	4.949	0.0437		
planted May 24.				2134	2.9980	0.51		2347	4.949	0.1039		
				2137	1.2000	0.57		2400	4.760	0.1387		
				2138	1.7988	0.60	8- 6	38	4.221	0.2329		
				2143	0.2400	0.62		113	3.563	0.3082		
				2201	0.0333	0.63		150	2.704	0.3722		
				2250	0.1102	0.72		228	1.778	0.4192		
				2251	3.0000	0.77		308	1.082	0.4509		
				2253	1.5000	0.82		346	0.653	0.4694		
				2255	2.1000	0.85		438	0.407	0.4852		
				2258	2.0600	0.99		538	0.209	0.4954		
				2301	2.4000	1.11		641	0.120	0.5012		
				2302	4.2011	1.18		826	0.059	0.5064		
				2304	2.7000	1.27		1048	0.023	0.5096		
				2307	1.6000	1.35		1200	0.012	0.5103		
				2309	2.7000	1.44		1353	0.005	0.5106		
				2328	0.0947	1.47		1513	0.002	0.5110		
				2400	0.0	1.47		1648	0.0	0.5110		



EVENT OF AUGUST 5 - 6, 1976
CHICKASHA, OKLAHOMA WATERSHED C-4

CHICKASHA, OKLAHOMA WATERSHED C-5

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 00 sec. N.; Long. 97 deg. 54 min. 33 sec. W.

AREA: 12.75 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							CHICKASHA, OKLAHOMA				WATERSHED C-5				
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P	0.0	0.33	3.32	4.12	1.85	2.56	3.00	3.08	2.66	2.12	0.03	0.62	23.69	
	Q	0.0	0.0	0.062	0.198	0.0	0.274	0.552	0.107	0.278	0.0	0.0	0.0	1.470	
STA AV	P ¹	0.89	1.18	2.27	3.02	3.81	2.32	2.59	3.12	3.69	2.65	1.07	0.90	27.69	
	Q	0.064	0.096	0.351	0.227	0.415	0.169	0.183	0.045	0.160	0.370	0.044	0.001	2.126	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		7-15	0.200	7-15	0.177	7-15	0.282	7-15	0.404	7-15	0.419	7-15	0.551	7-14	0.552
MAXIMIMS FOR PERIOD OF RECORD															
		10-2	0.595	10-2	0.546	10-2	0.884	10-2	1.547	10-2	1.638	10-2	1.652	10-30	1.837
		1971		1971		1971		1971		1971		1971		1972	1975

NOTES: Watershed conditions: 100% cultivation, continuous dry land wheat. Not harvested for grain. Spring-tooth harrowed 5-6" April 27, offset disk and spring-tooth harrowed June 4, offset disk 4-5" deep July 19, fert. and offset disk Aug. 23, offset disk and spring-tooth Sept. 21. Wheat planted Oct. 6. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.34-1. Maps - revised composite, p. 69.7-21; topography, p. 69.34-3 of foregoing reference. Monthly precipitation data obtained from Thiessen weighted rainfall values from two recording weighing type rain gages, Nos. 185 and 187. Precipitation and runoff records began May 1, 1965. STA AV values are based on 12 yr (1965-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Ok.

1976	DAILY PRECIPITATION (inches)						CHICKASHA, OKLAHOMA WATERSHED C-5						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.14	0.0	0.0	
5	0.0	0.33	0.0	0.0	0.34	0.0	0.0	1.42	0.0	0.21	0.0	0.53	
6	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.09	
7	0.0	0.0	1.04	0.24	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	
8	0.0	0.0	1.25	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.03	0.0	
12	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	1.25	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.47	0.53	0.0	0.77	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.79	0.0	0.0	1.65	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.11	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.03	0.0	0.0	
19	0.0	0.0	0.0	1.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.08	0.73	0.0	0.18	0.0	0.13	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	1.27	0.0	0.65	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.02	0.0	0.0	
28	0.0	0.0	0.17	0.65	0.0	0.0	0.62	0.0	0.0	0.02	0.0	0.0	
29	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.17	0.0	1.30	0.0	0.0	
30	0.0	0.0	0.0	0.14	0.15	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
31	0.0	0.0	0.0	0.29	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.0	0.33	3.32	4.12	1.85	2.56	3.00	3.08	2.66	2.12	0.03	0.62	
STA AV	0.69	1.18	2.27	3.02	3.61	2.32	2.59	3.12	3.69	2.85	1.07	0.90	

NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 185 and 187. STA AV values are based on 12 yr (1965-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED C-5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.037	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.035	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.114	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.162	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.134	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.147	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0011	0.0035	0.0	0.0049	0.0095	0.0018	0.0050	0.0	0.0	0.0
INCHES	0.0	0.0	0.062	0.198	0.0	0.274	0.552	0.107	0.278	0.0	0.0	0.0
STA AV	0.064	0.096	0.351	0.227	0.415	0.169	0.183	0.045	0.160	0.370	0.044	0.001

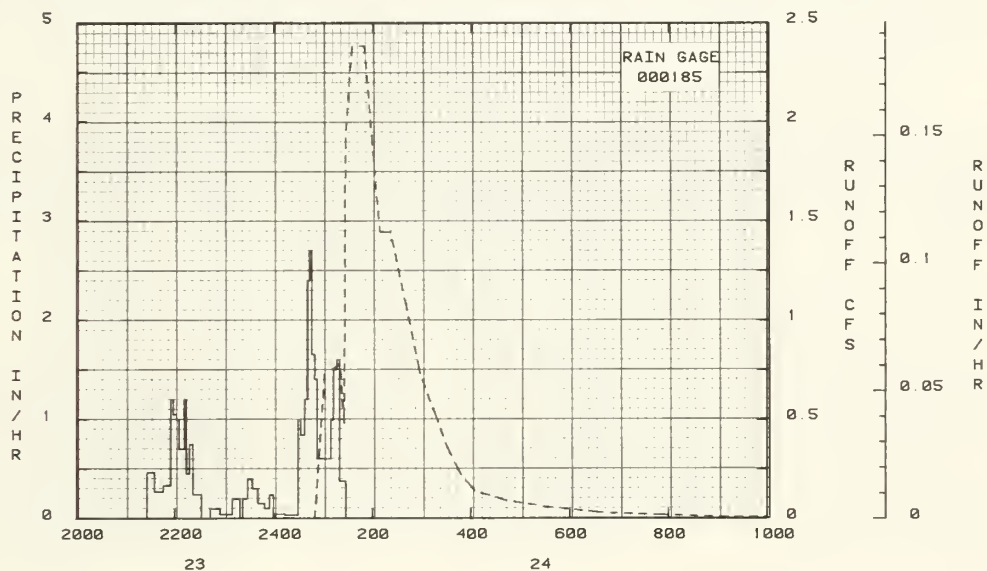
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.866796. STA AV values are based on 12 yr (1965-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED C-5										
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Fainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 23 - 24, 1976										
RG 000185			RG 000185							
6-23	0.0		6-23	2126	0.0	0.0	6-24	50	0.0	0.0
6-24		0.0		2135	0.4667	0.07		52	0.121	0.0002
				2146	0.2727	0.12		56	0.347	0.0014
				2155	0.3333	0.17		102	0.732	0.0056
				2158	1.2000	0.23		120	0.780	0.0232
WATERSHED CONDITIONS: 100% cultivation, continuous dry land wheat. Seedbed preparation: Spring-tooth April 27, disk and spring-tooth June 4, disk July 19, apply fertilizer and disk August 23, disk and spring-tooth Sept. 21. Wheat planted October 6.				2202	1.0500	0.30		126	0.480	0.0281
				2205	1.0000	0.35		127	1.917	0.0297
				2211	0.7000	0.42		135	2.376	0.0519
				2214	1.2000	0.48		150	2.376	0.0981
				2218	0.4500	0.51		159	1.917	0.1232
				2222	0.7500	0.56		209	1.445	0.1449
				2232	0.2400	0.60		222	1.445	0.1693
				2243	0.0	0.60		242	1.051	0.2017
				2255	0.1000	0.62		258	0.732	0.2201
				2310	0.0400	0.63		317	0.517	0.2355
				2319	0.2000	0.66		332	0.347	0.2439
				2323	0.0	0.66		348	0.216	0.2498
				2329	0.2000	0.68		404	0.137	0.2534
				2335	0.4000	0.72		443	0.089	0.2591
				2341	0.3000	0.75		530	0.062	0.2637
				2349	0.1500	0.77		640	0.033	0.2680
				2355	0.1000	0.78		750	0.018	0.2704
				2400	0.2400	0.80		903	0.011	0.2717
6-24				1	0.0	0.80		1050	0.006	0.2729
				14	0.0462	0.81		1200	0.004	0.2734
				30	0.0375	0.82		1400	0.0	0.2737
				33	1.0000	0.87				
				38	0.8400	0.94				
				41	1.2000	1.00				
				44	2.4000	1.12				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.07778.

1976 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED C-5							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JUNE 23 - 24, 1976 (CONTINUED)										
6-24			46		2.7000	1.21				
			50		1.6500	1.32				
			53		1.4000	1.39				
			110		0.6000	1.56				
			113		1.0000	1.61				
			117		1.5000	1.71				
			120		1.6000	1.79				
			128		0.3750	1.84				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.07778.



EVENT OF JUNE 23 - 24, 1976
CHICKASHA, OKLAHOMA WATERSHED C-5

CHICKASHA, OKLAHOMA WATERSHED C-6

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 00 sec. N.; Long. 97 deg. 54 min. 34 sec. W.

AREA: 13.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED C-6									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual									
1976	P	0.0	0.33	3.31	4.11	1.86	2.56	2.99	3.08	2.63	2.11	0.03	0.61	23.62									
	Q	0.0	0.0	0.060	0.239	0.0	0.386	0.720	0.169	0.269	0.0	0.0	0.0	1.843									
STA AV	P	0.89	1.18	2.26	3.04	3.81	2.32	2.59	3.13	3.69	2.85	1.07	0.89	27.71									
	Q	0.090	0.088	0.381	0.237	0.426	0.187	0.182	0.087	0.204	0.373	0.052	0.007	2.316									
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days							
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.						
1976		7-15	0.394	7-15	0.299	7-15	0.387	7-15	0.453	7-15	0.455	7-15	0.720	7-14	0.720	7- 8	0.720						
MAXIMUMS FOR PERIOD OF RECORD																							
		10- 2	0.877	10- 2	0.776	10- 2	1.123	10- 2	1.695	10- 2	1.761	10- 2	1.763	10-30	1.769	5-24	1.841						
		1971		1971		1971		1971		1971		1971		1972		1973							

NOTES: Watershed conditions: 100% cropland, planted to wheat in fall of 1975, not harvested for grain. Spring-tooth harrowed 5-6" deep April 27, offset disk and spring-toothed June 4, offset disked 4-5" deep July 19, fertilized and offset disked Aug. 23, offset disked and spring-tooth harrowed Sept. 21, planted wheat Oct. 6. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p.69.35-1. Maps - revised composite, p. 69.7-21; topography, p. 69.34-3 of foregoing reference. Monthly precipitation data obtained from Thiessen weighted rainfall values from two recording weighing type rain gages, Nos. 185 and 187. Precipitation and runoff records began May 1, 1965. STA AV values are based on 12 yr (1965-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976 DAILY PRECIPITATION (inches)													
CHICKASHA, OKLAHOMA WATERSHED C-6													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.14	0.0	0.0	0.0
5	0.0	0.33	0.0	0.0	0.34	0.0	0.0	1.43	0.0	0.21	0.0	0.53	
6	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.08	
7	0.0	0.0	1.03	0.24	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	
8	0.0	0.0	1.25	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.03	0.0	
12	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	1.24	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.47	0.52	0.0	0.77	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.79	0.0	0.0	1.65	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.11	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.03	0.0	0.0	
19	0.0	0.0	0.0	1.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.08	0.73	0.0	0.19	0.0	0.13	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	1.27	0.0	0.64	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.02	0.0	0.0	
28	0.0	0.0	0.17	0.84	0.0	0.0	0.62	0.0	0.0	0.02	0.0	0.0	
29	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.17	0.0	1.29	0.0	0.0	
30	0.0	0.0	0.0	0.14	0.15	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.44	0.0	0.0	0.0	0.0	
TOTAL	0.0	0.33	3.31	4.11	1.86	2.56	2.99	3.08	2.63	2.11	0.03	0.61	
STA AV	0.89	1.18	2.26	3.04	3.81	2.32	2.59	3.13	3.69	2.85	1.07	0.89	

NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 185 and 187. STA AV values are based on 12 yr (1965-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASAW, OKLAHOMA WATERSHED C-6												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.083	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.037	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.110	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.301	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.093	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.124	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.211	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0011	0.0044	0.0	0.0070	0.0127	0.0030	0.0049	0.0	0.0	0.0
INCHES	0.0	0.0	0.060	0.239	0.0	0.386	0.720	0.169	0.269	0.0	0.0	0.0
STA AV	0.090	0.088	0.381	0.237	0.426	0.187	0.182	0.087	0.204	0.373	0.052	0.007

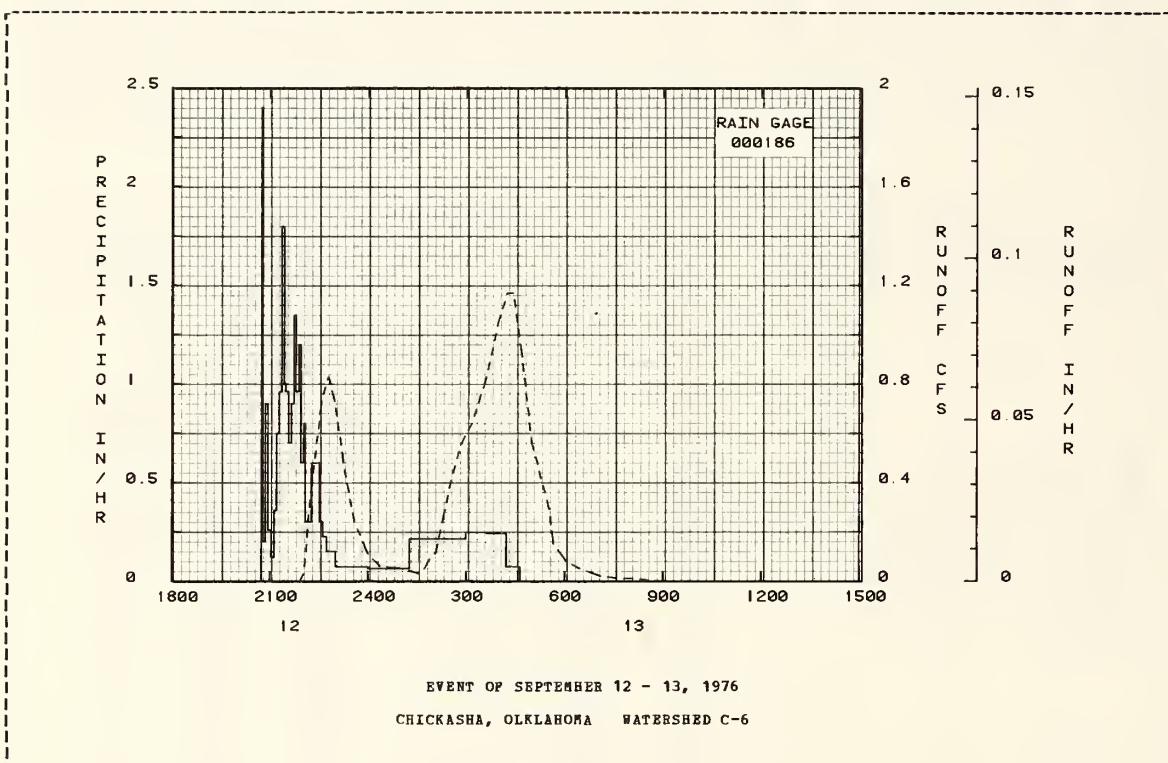
NOTES: To convert discharge in CPS to IN/DAY, multiply by 1.830896. STA AV values are based on 12 yr (1965-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASAW, OKLAHOMA WATERSHED C-6											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Fainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 12 - 13, 1976											
RG 000186											
9-12	0.0	0.0	9-12	2045	0.0	0.0	9-12	2155	0.0	0.0	
				2046	2.4000	0.04		2202	0.033	0.0002	
				2052	0.2000	0.06		2207	0.121	0.0006	
				2056	0.9000	0.12		2210	0.239	0.0013	
				2103	0.2571	0.15		2218	0.410	0.0046	
WATERSHED CONDITIONS:											
100% Cropland, planted to											
wheat in fall of 1975, not											
harvested for grain. Spring-											
tooth harrowed 5-6" deep April											
27, offset disk and spring-											
toothed June 4, offset disked											
4-5" deep July 19, fertilized											
and offset disked Aug. 23,											
offset disked and spring-tooth											
harrowed Sept. 21, planted											
wheat Oct. 6.											
				2108	0.1200	0.16		2235	0.732	0.0170	
				2113	0.3600	0.19		2247	0.830	0.0289	
				2117	0.7500	0.24		2259	0.732	0.0408	
				2122	0.9600	0.32		2315	0.480	0.0531	
				2126	1.8000	0.44		2335	0.239	0.0623	
				2129	1.0000	0.49					
				2134	0.9600	0.57	9-13	2400	0.112	0.0679	
				2140	0.7000	0.64		22	0.062	0.0703	
				2144	0.9000	0.70		102	0.045	0.0730	
				2148	1.3500	0.79		133	0.027	0.0744	
								143	0.053	0.0749	
				2153	0.9600	0.87		153	0.089	0.0758	
				2157	1.2000	0.95		205	0.121	0.0774	
				2202	0.6000	1.00		221	0.290	0.0816	
				2205	0.8000	1.04		232	0.410	0.0865	
				2217	0.3000	1.10		251	0.557	0.0982	
				2231	0.6000	1.24		310	0.641	0.1127	
				2237	0.3000	1.27		337	0.830	0.1379	
				2245	0.2250	1.30		358	1.051	0.1630	
				2301	0.1500	1.34		415	1.174	0.1871	
				2400	0.0712	1.41		425	1.174	0.2020	
			9-13	116	0.0632	1.49		440	0.937	0.2221	
				259	0.2155	1.86		500	0.557	0.2411	
				338	0.2462	2.02		532	0.290	0.2584	
				413	0.2400	2.16		540	0.155	0.2606	
				438	0.0720	2.19		603	0.078	0.2640	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.07629.

1976 SELECTED RUNOFF EVENT			CHICKASBA, OKLAHOMA WATERSHED C-6								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 12 - 13, 1976 (CONTINUED)											
							9-13	628	0.045	0.2660	
								706	0.022	0.2676	
								735	0.014	0.2683	
								805	0.008	0.2687	
								853	0.004	0.2691	
								955	0.002	0.2693	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.07629.



CHICKASHA, OKLAHOMA WATERSHED C-7

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, E. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 01 sec. N.; Long. 97 deg. 54 min. 38 sec. W.

AREA: 26.52 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								CHICKASHA, OKLAHOMA				WATERSHED C-7					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.0	0.33	3.32	4.11	1.85	2.56	2.99	3.08	2.64	2.11	0.03	0.61	23.63			
	Q	0.0	0.0	0.0	0.060	0.0	0.134	0.026	0.014	0.055	0.0	0.0	0.0	0.290			
STA AV	P	0.89	1.16	2.25	3.02	3.79	2.33	2.57	3.12	3.69	2.65	1.07	0.85	27.64			
	Q	0.004	0.016	0.095	0.234	0.279	0.213	0.331	0.229	0.230	0.373	0.025	0.004	2.032			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		6-24	0.035	6-24	0.035	6-24	0.063	6-24	0.121	5-24	0.133	6-23	0.134	6-22	0.134	6-16	0.134
MAXIMUMS FOR PERIOD OF RECORD																	
		4-12	0.957	4-12	0.637	4-12	0.824	10- 2	1.379	10- 2	1.596	10-30	1.891	10-30	2.220	7-21	2.440
		1967		1967		1967		1971		1971		1972		1972		1975	

NOTES: Watershed conditions: 100% cropland. North half was chiseled and moldboarded Jan. 19, tandem disked and spring-toothed March 18, spring-toothed June 1, offset disked July 8, fertilized and offset disked July 19, spike-toothed Sept. 7, and planted to alfalfa Sept. 8. The north half of the south half was chiseled, moldboarded, fertilized and disked and planted to grain forage on June 3, harvested on August 27 and moldboarded on Oct. 1. The south half of the south half was in alfalfa that was moldboard plowed on Oct. 1. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.36-2 and 69.36-4. Monthly precipitation obtained from Thiessen weighted rainfall values from two recording weighing type rain gages, Nos. 135 and 187. Precipitation and runoff records began May 1, 1965. STA AV values are based on 12 yr (1965-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976 DAILY PRECIPITATION (inches)													
CHICKASHA, OKLAHOMA WATERSHED C-7													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.14	0.0	0.0	
5	0.0	0.33	0.0	0.0	0.34	0.0	0.0	1.43	0.0	0.21	0.0	0.0	0.53
6	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.08
7	0.0	0.0	1.03	0.24	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0
8	0.0	0.0	1.25	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.03	0.0	
12	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	1.24	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.47	0.52	0.0	0.77	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.79	0.0	0.0	1.65	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.11	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.03	0.0	0.0	
19	0.0	0.0	0.0	1.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.08	0.73	0.0	0.19	0.0	0.13	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	1.27	0.0	0.64	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.02	0.0	0.0	
28	0.0	0.0	0.17	0.84	0.0	0.0	0.62	0.0	0.0	0.02	0.0	0.0	
29	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.17	0.0	1.29	0.0	0.0	
30	0.0	0.0	0.0	0.14	0.15	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.44	0.0	0.0	0.0	0.0	
TOTAL	0.0	0.33	3.32	4.11	1.85	2.56	2.99	3.08	2.64	2.11	0.03	0.61	
STA AV	0.89	1.18	2.25	3.02	3.79	2.33	2.57	3.12	3.69	2.85	1.07	0.89	

NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 165 and 187. STA AV values are based on 12 yr (1965-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED C-7												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.056	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.067	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.150	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.022	0.0	0.0050	0.0009	0.0005	0.0021	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.050	0.0	0.134	0.026	0.014	0.055	0.0	0.0	0.0
STA AV	0.004	0.015	0.095	0.234	0.279	0.213	0.331	0.229	0.230	0.373	0.025	0.004

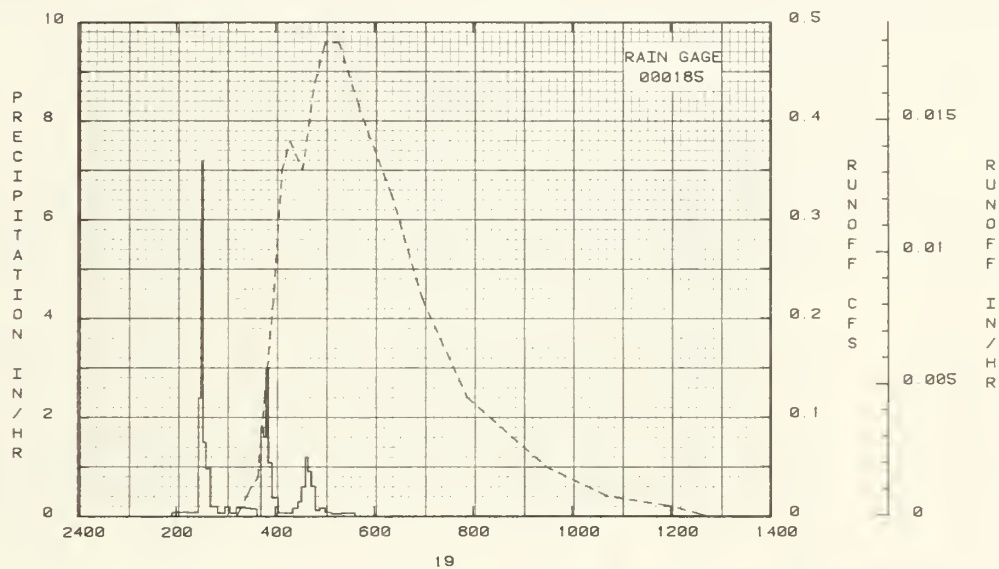
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.897496. STA AV values are based on 12 yr (1965-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED C-7											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 19, 1976											
RG 000185											
4-19	0.0	0.0	4-19	155	0.0	0.0	4-19	313	0.0	0.0	
				227	0.0938	0.05		319	0.014	0.0000	
				230	2.4000	0.17		331	0.033	0.0002	
				231	6.0000	0.27		339	0.039	0.0304	
				232	7.2000	0.39		347	0.121	0.0008	
WATERSHED CONDITIONS:											
100% cropland. North half											
was chiseled & moldboarded											
Jan. 19, tandem disked and											
spring-toothed March 18,											
spring-toothed June 1, offset											
disked July 8, fertilized											
and offset disked July 19,											
spike-toothed Sept. 7, and											
planted to alfalfa Sept. 8.											
The north half of the south											
half was chiseled, moldboarded											
fertilized and disked and											
planted to grain forage on Jun											
3, harvested on Aug. 27 and											
moldboarded on Oct. 1. The											
south half of the south half											
was in alfalfa that was mold-											
board plowed Oct. 1.											
				346	1.8000	0.30		753	0.121	0.0495	
				349	1.6000	0.83		928	0.053	0.0546	
				351	3.0000	0.93		1043	0.022	0.0564	
				355	1.0800	1.07		1200	0.008	0.0571	
				404	0.3750	1.12		1243	0.004	0.0572	
				413	0.0667	1.13		1405	0.0	0.0573	
				421	0.0750	1.14					
				428	0.1714	1.16					
				432	0.3030	1.18					
				437	0.6000	1.23					
				440	1.2000	1.29					
				444	0.9000	1.35					
				449	0.6000	1.40					
				454	0.1200	1.41					
				501	0.1714	1.43					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03740.

1976 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED C-7								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF*					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 19, 1976 (CONTINUED)											
			4-19	508	0.0857	1.44					
				520	0.0500	1.45					
				537	0.0706	1.47					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03740.



EVENT OF APRIL 19, 1976
CHICKASHA, OKLAHOMA WATERSHED C-7

CHICKASHA, OKLAHOMA WATERSHED C-8

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 01 min. 55 sec. N.; Long. 97 deg. 54 min. 25 sec. W.

AREA: 27.28 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED C-8	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P	0.0	0.32	3.44	4.41	1.97	2.75	2.97	3.19	2.64	2.17	0.03	0.61	24.50	
	Q	0.0	0.0	0.0	0.042	0.0	0.056	0.037	0.047	0.018	0.0	0.0	0.0	0.200	
STA AV	P	0.92	1.20	2.34	3.02	3.91	2.41	2.67	3.16	3.72	3.00	1.12	0.92	28.39	
	Q	0.013	0.046	0.186	0.089	0.209	0.094	0.284	0.121	0.134	0.220	0.010	0.0	1.406	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		8-5	0.045	8-5	0.030	8-5	0.036	6-24	0.049	6-24	0.056	6-23	0.056	6-22	0.056
MAXIMUMS FOR PERIOD OF RECORD															
		10-2	0.853	10-2	0.693	10-2	0.998	10-2	1.405	10-2	1.458	10-2	1.458	10-1	1.458
		1971		1971		1971		1971		1971		1971		1971	1975

NOTES: Watershed conditions: 100% cropland, entire watershed in alfalfa. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.37-1. Maps - revised composite, p. 69.7-21; topography, p. 69.37-5 of foregoing reference. Monthly precipitation obtained from Thiessen weighted rainfall values from two recording weighing type rain gages, Nos. 185 and 188. Precipitation and runoff records began April 1, 1965. STA AV values are based on 12 yr (1965-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED C-8	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.15	0.0	0.0			
5	0.0	0.32	0.0	0.0	0.37	0.0	0.0	1.50	0.0	0.21	0.0	0.53			
6	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.08			
7	0.0	0.0	1.06	0.27	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0			
8	0.0	0.0	1.31	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.0	0.16	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.03	0.0			
12	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	1.22	0.0	0.0	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.49	0.50	0.0	0.81	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.85	0.0	0.0	1.72	0.0	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.13	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
18	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.03	0.0	0.0			
19	0.0	0.0	0.0	1.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	0.0	0.0	0.08	0.77	0.0	0.25	0.0	0.13	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	1.39	0.0	0.63	0.0	0.0	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.02	0.0	0.0			
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.02	0.0	0.0			
28	0.0	0.0	0.18	0.96	0.0	0.0	0.53	0.0	0.0	0.01	0.0	0.0			
29	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.22	0.0	1.32	0.0	0.0			
30	0.0	0.0	0.0	0.15	0.14	0.0	0.0	0.0	0.0	0.02	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.37	0.0	0.0	0.0	0.0			
TOTAL	0.0	0.32	3.44	4.41	1.97	2.75	2.97	3.19	2.64	2.17	0.03	0.61			
STA AV	0.92	1.20	2.34	3.02	3.91	2.41	2.67	3.16	3.72	3.00	1.12	0.92			

NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 185 and 188. STA AV values are based on 12 yr (1965-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED C-8												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.034	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.023	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.048	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.064	0.0	0.004	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0016	0.0	0.0021	0.0014	0.0017	0.0007	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.042	0.0	0.056	0.037	0.047	0.018	0.0	0.0	0.0
STA AV	0.013	0.046	0.186	0.089	0.209	0.094	0.284	0.121	0.134	0.220	0.010	0.0

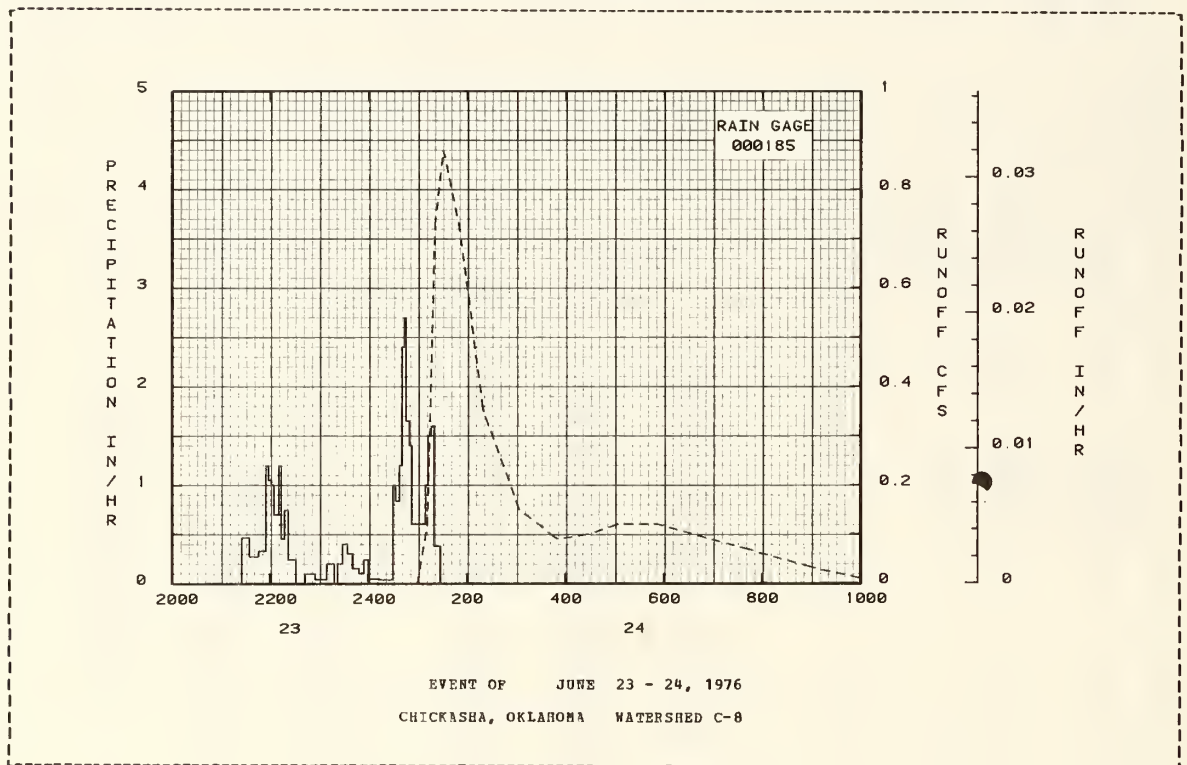
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.872495. STA AV values are based on 12 yr (1965-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED C-8										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 23 - 24, 1976										
RG 000185			RG 000185							
6-23	0.0		6-23	2126	0.0	0.0	6-24	100	0.0	0.0
6-24		0.0		2135	0.4667	0.07		112	0.121	0.0004
				2146	0.2727	0.12		121	0.732	0.0028
				2155	0.3333	0.17		131	0.883	0.0077
				2158	1.2000	0.23		150	0.732	0.0170
WATERSHED CONDITIONS: Alfalfa planted 9-26-73. Harvested; May 14, June 8, July 9, August 8 and October 12.				2202	1.0500	0.30		220	0.347	0.0268
				2205	1.0000	0.35		304	0.155	0.0335
				2211	0.7000	0.42		350	0.089	0.0369
				2214	1.2000	0.48		428	0.100	0.0390
				2218	0.4500	0.51		504	0.121	0.0414
				2222	0.7500	0.56		550	0.121	0.0448
				2232	0.2400	0.60		740	0.070	0.0512
				2243	0.0	0.60		905	0.033	0.0538
				2255	0.1000	0.62		1045	0.011	0.0552
				2310	0.0400	0.63		1200	0.004	0.0555
				2319	0.2000	0.66				
				2323	0.0	0.66		1233	0.0	0.0555
				2329	0.2000	0.68				
				2335	0.4000	0.72				
				2341	0.3000	0.75				
				2349	0.1500	0.77				
				2355	0.1000	0.78				
				2400	0.2400	0.80				
			6-24	1	0.0	0.80				
				14	0.0462	0.81				
				30	0.0375	0.82				
				33	1.0000	0.87				
				38	0.8400	0.94				
				41	1.2000	1.00				
				44	2.4000	1.12				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03636.

1976 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED C-8		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day
								Rate (cfs)
								Acc. (inches)
EVENT OF JUNE 23 - 24, 1976 (CONTINUED)								
6-24			46		2.7000	1.21		
			50		1.6500	1.32		
			53		1.4000	1.39		
			110		0.6000	1.56		
			113		1.0000	1.61		
			117		1.5000	1.71		
			120		1.6000	1.79		
			128		0.3750	1.84		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03636.



CHICKASHA, OKLAHOMA WATERSHED R-5

LOCATION: Grady County, Oklahoma; S $\frac{1}{4}$, sec. 12, T. 7 N., R. 6 W., about 8 miles east and 3 miles north of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 05 min. 21 sec. N.; Long. 97 deg. 47 min. 25 sec. W.

AREA: 23.72 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										CHICKASHA, OKLAHOMA WATERSHED R-5									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	0.0	0.35	2.84	3.53	1.71	2.37	3.45	1.65	2.03	2.16	0.11	0.52	20.72					
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.017					
STA AV	P	0.95	1.17	2.25	3.13	4.47	2.98	2.64	2.60	3.99	3.35	1.46	1.05	30.03					
	Q	0.038	0.025	0.219	0.190	0.448	0.287	0.031	0.004	0.049	0.206	0.098	0.023	1.608					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		7-15	0.013	7-15	0.010	7-15	0.013	7-15	0.017	7-15	0.017	7-15	0.017	7-14	0.017	7- 8	0.017		
MAXIMUMS FOR PERIOD OF RECORD																			
		5-24	2.637	5-24	1.576	5-24	1.760	5-24	1.799	5-24	1.800	5-24	1.800	5-22	1.806	5-24	2.035		
		1973		1973		1973		1973		1973		1973		1973		1973			

NOTES: Watershed conditions: 100% rangeland, native grass rangeland, continuously grazed by beef cattle during recent years. Range condition class during 1976 was good. The vegetative cover in early December 1976, based on 25 clipped samples uniformly spaced, averaged 1,638 lbs. of standing grass, 37 lbs. of weeds, and 4,104 lbs. of mulch per acre. Prior to Oct. 1970 this watershed was within the same pasture area as Watershed R-6, however, was subjected to a slightly heavier grazing rate. See Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 69.42-1 for general description of watershed and p. 69.42-3 for maps - topography; revised composite, 1965, USDA Misc. Pub. 1216, p. 69.7-21. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 195 and 196. Precipitation and runoff records began July 1, 1966. STA AV values are based on 11 yr (1966-76) record period. For long-time precipitation records see National Weather Service records at Chickasha, Oklahoma.

1976 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED R-5													
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	3	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0														
	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.08	0.0	0.0														
	5	0.0	0.35	0.0	0.0	0.26	0.0	0.0	0.97	0.0	0.10	0.0	0.44														
	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.08														
	7	0.0	0.0	1.00	0.35	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0														
	8	0.0	0.0	1.03	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0														
	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0														
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	11	0.0	0.0	0.13	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.10	0.0														
	12	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.97	0.0	0.0	0.0														
	13	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.75	0.0	0.0	0.0														
	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0														
	15	0.0	0.0	0.0	0.78	0.0	0.0	2.65	0.0	0.0	0.03	0.0	0.0														
	16	0.0	0.0	0.0	0.13	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0														
	17	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0														
	18	0.0	0.0	0.0	0.04	0.0	0.12	0.0	0.0	0.0	0.02	0.0	0.0														
	19	0.0	0.0	0.0	0.93	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0														
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	22	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	23	0.0	0.0	0.0	0.0	0.04	0.78	0.0	0.12	0.0	0.15	0.0	0.0														
	24	0.0	0.0	0.0	0.0	0.0	1.02	0.0	0.0	0.0	0.0	0.0	0.0														
	25	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	26	0.0	0.0	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.03	0.0	0.0														
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.03	0.0	0.0														
	28	0.0	0.0	0.25	0.95	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0														
	29	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.05	0.0	1.46	0.0	0.0														
	30	0.0	0.0	0.0	0.15	0.07	0.0	0.0	0.0	0.0	0.04	0.0	0.0														
	31	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.34	0.0	0.0	0.0	0.0														
TOTAL	STA AV	0.0	0.35	2.84	3.53	1.71	2.37	3.45	1.65	2.03	2.16	0.11	0.52														
		0.95	1.17	2.25	3.13	4.47	2.98	2.64	2.60	3.99	3.35	1.46	1.05														

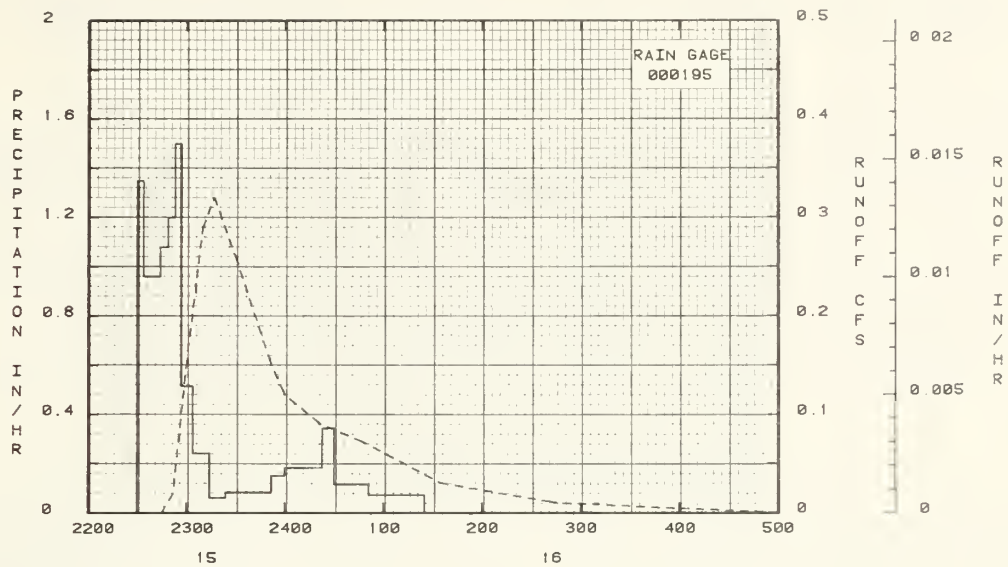
NOTES: Precipitation obtained from Thiessen weighted values from two gages, Nos. 195 and 196. STA AV values are based on 11 yr (1966-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED R-5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0005	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0
STA AV	0.038	0.025	0.219	0.180	0.448	0.287	0.031	0.004	0.049	0.206	0.098	0.023

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.003442. STA AV values are based on 11 yr (1966-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED R-5											
ANTECEDENT CONDITIONS			RAINFALL								
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 15 - 16, 1976											
RG 000195			RG 000195								
7-15	0.0	0.0	7-15	2230	0.0	0.0	7-15	2245	0.0	0.0	
				2234	1.3500	0.09		2252	0.020	0.0001	
				2244	0.9600	0.25		2300	0.155	0.0005	
				2249	1.0800	0.34		2310	0.289	0.0021	
				2253	1.2000	0.42		2317	0.317	0.0036	
WATERSHED CONDITIONS: 100% rangeland, native grass rangeland, continuously grazed by beef cattle during recent years.				2257	1.5000	0.52		2330	0.263	0.0062	
				2304	0.5143	0.58		2352	0.155	0.0094	
				2314	0.2400	0.62		2400	0.121	0.0102	
				2324	0.0600	0.63	7-16	22	0.092	0.0118	
				2352	0.0857	0.67		50	0.068	0.0134	
			7-16	2400	0.1500	0.69		135	0.032	0.0149	
				23	0.1826	0.76		245	0.011	0.0160	
				30	0.3429	0.80		505	0.002	0.0166	
				51	0.1143	0.84		725	0.0	0.0167	
				125	0.0706	0.88		855	0.0	0.0167	
								1035	0.0	0.0167	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.041810.



EVENT OF JULY 15 - 16, 1976
CHICKASHA, OKLAHOMA WATERSHED B-5

CHICKASHA, OKLAHOMA WATERSHED R-6

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 12, T. 7 N., R. 6 W., about 8-1/2 miles east and 3 miles north of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 05 min. 18 sec. N.; Long. 97 deg. 47 min. 20 sec. W.

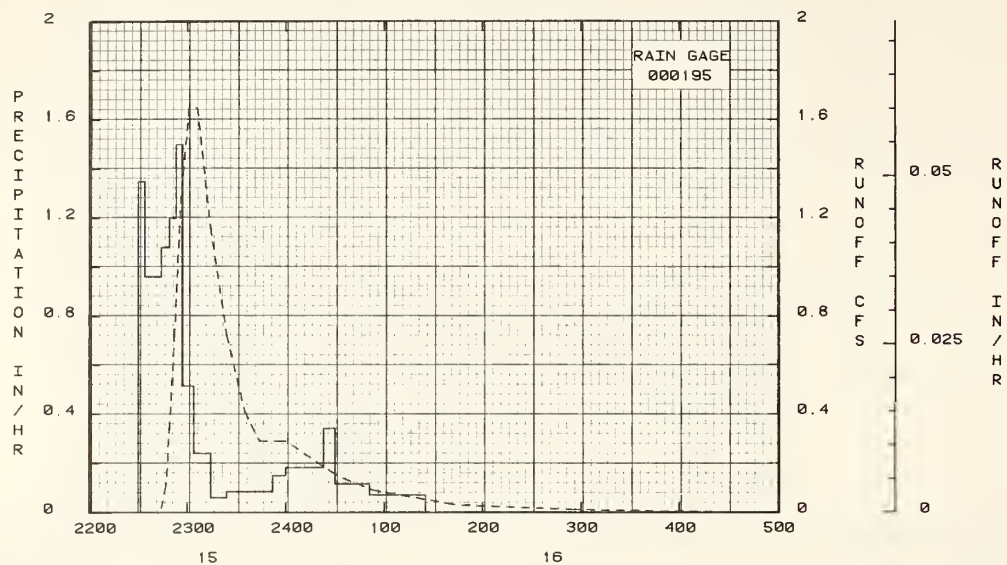
AREA: 27.22 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								CHICKASHA, OKLAHOMA WATERSHED 8-6									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	0.0	0.34	2.75	3.44	1.56	2.30	3.30	1.58	1.91	2.08	0.12	0.49	19.87			
	Q	0.0	0.0	0.013	0.020	0.0	0.035	0.091	0.0	0.0	0.0	0.0	0.0	0.159			
STA AV	P	0.95	1.18	2.20	3.08	4.48	2.93	2.61	2.58	4.01	3.29	1.47	1.04	29.80			
	Q	0.019	0.018	0.193	0.209	0.530	0.274	0.043	0.019	0.062	0.195	0.086	0.012	1.659			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		7-15	0.060	7-15	0.035	7-15	0.045	7-15	0.047	7-15	0.071	7-15	0.091	7-14	0.091	7- 8	0.091
MAXIMUMS FOR PERIOD OF RECORD																	
		5-24	3.329	5-24	1.914	5-24	2.048	5-24	2.060	5-24	2.060	5-23	2.060	5-22	2.116	5-24	2.384
		1973		1973		1973		1973		1973		1973		1973		1973	

NOTES: Watershed conditions: 100% rangeland, native grass continuously grazed by beef cattle during recent years. Range condition class during the year was good, however, entire area was slightly overgrazed throughout the year. The vegetative cover in December 1976, based on 25 uniformly spaced clipped samples, averaged 1,647 pounds of standing grass, 116 pounds of weeds, and 3,021 pounds of mulch. This watershed was in the same pasture area as Watershed R-5, however, was subjected to a slightly lighter grazing rate. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, pp. 69.43-1 and 69.43-3. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 196 and 197. Precipitation and runoff records began July 1, 1966. STA AV values are based on 11 yr (1966-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1976 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED R-6	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.07	0.0	0.0		
5	0.0	0.34	0.0	0.0	0.23	0.0	0.0	0.96	0.0	0.10	0.0	0.41		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.08		
7	0.0	0.0	0.98	0.34	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0		
8	0.0	0.0	1.06	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.09	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.10	0.0		
12	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.90	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.72	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0		
15	0.0	0.0	0.0	0.78	0.0	0.0	2.58	0.0	0.0	0.03	0.0	0.0		
16	0.0	0.0	0.0	0.13	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.04	0.0	0.12	0.0	0.0	0.0	0.03	0.0	0.0		
19	0.0	0.0	0.0	0.93	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.02	0.74	0.0	0.15	0.0	0.15	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.02	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.03	0.0	0.0		
28	0.0	0.0	0.23	0.91	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.03	0.0	1.46	0.0	0.0		
30	0.0	0.0	0.0	0.13	0.08	0.0	0.0	0.0	0.0	0.02	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.28	0.0	0.0	0.0	0.0		
TOTAL	0.0	0.34	2.75	3.44	1.56	2.30	3.30	1.58	1.91	2.08	0.12	0.49		
STA AV	0.95	1.18	2.20	3.08	4.48	2.93	2.61	2.58	4.01	3.29	1.47	1.04		

NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 196 and 197. STA AV values are based on 11 yr (1966-76) record period.



EVENT OF JULY 15 - 16, 1976
CHICKASHA, OKLAHOMA WATERSHED R-6

CHICKASHA, OKLAHOMA WATERSHED R-7

LOCATION: Grady County, Oklahoma; NW 1/4, sec. 13, T. 7 N., R. 6 W., about 8 miles east and 2-1/2 miles north of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 04 min. 58 sec. N.; Long. 97 deg. 47 min. 27 sec. W.

AREA: 19.19 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED R-7													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1976	P	0.0	0.35	2.75	3.39	1.78	2.30	3.20	1.47	2.07	2.09	0.10	0.46	19.98													
	Q	0.0	0.0	0.103	0.312	0.044	0.344	0.697	0.009	0.058	0.000	0.0	0.0	1.568													
STA AV	P	0.93	1.12	2.13	3.01	4.37	2.52	2.53	2.57	3.92	3.15	1.39	1.00	29.03													
	Q	0.146	0.118	0.357	0.670	1.104	0.699	0.297	0.247	0.588	0.759	0.298	0.065	5.349													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval								1 Day		2 Days		8 Days							
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		7-15	0.560	7-15	0.338	7-15	0.389	7-15	0.392	7-15	0.525	7-15	0.697	7-14	0.697	7- 8	0.697										
MAXIMUMS FOR PERIOD OF RECORD																											
		5-24	5.059	5-24	2.185	5-24	2.311	5-24	2.320	5-24	2.320	10-30	2.362	11-10	2.988	5-24	3.705										
		1973		1973		1973		1973		1973		1972		1972		1973											

NOTES: Watershed conditions: Formerly cultivated from about 1907 until about 1935 when the land use was changed to pasture because of severe erosion. Range condition class during the year was poor, with severe overgrazing. On May 19, 1975 watershed was fertilized with 740 lbs. 10-20-10. Livestock were excluded until Oct. 4, 1975. The vegetative cover in December 1976 based on 25 uniformly spaced clipped samples, averaged 131 pounds of standing grass, 71 pounds of weeds, and 1,295 pounds per acre of mulch. Prior to Oct. 1970, this watershed was within the same pasture area as Watershed R-8, however, it was enclosed by separate fence in order to implement an improved management program. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, pp. 69.44-1 and 69.44-3. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 193 and 194. Precipitation and runoff records began July 1, 1966. STA AV values are based on 11 yr (1966-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1976		DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA WATERSHED R-7							
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	3	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	
	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.07	0.0	0.0	
	5	0.0	0.35	0.0	0.0	0.25	0.0	0.0	0.92	0.0	0.10	0.0	0.38	
	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.10	
	7	0.0	0.0	0.99	0.32	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	
	8	0.0	0.0	1.05	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	
	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	11	0.0	0.0	0.10	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.09	0.0	
	12	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.99	0.0	0.0	0.0	
	13	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.74	0.0	0.0	0.0	
	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	
	15	0.0	0.0	0.0	0.80	0.0	0.0	2.45	0.0	0.0	0.03	0.0	0.0	
	16	0.0	0.0	0.0	0.15	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	
	17	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	
	18	0.0	0.0	0.0	0.03	0.0	0.13	0.0	0.0	0.0	0.02	0.0	0.0	
	19	0.0	0.0	0.0	0.89	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	22	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	23	0.0	0.0	0.0	0.0	0.04	0.75	0.0	0.10	0.0	0.15	0.0	0.0	
	24	0.0	0.0	0.0	0.0	0.0	1.03	0.0	0.0	0.0	0.0	0.0	0.0	
	25	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	26	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.02	0.0	0.0	
	28	0.0	0.0	0.19	0.89	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	
	29	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.05	0.0	1.44	0.0	0.0	
	30	0.0	0.0	0.0	0.12	0.14	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
	31	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.24	0.0	0.0	0.0	0.0	
TOTAL		0.0	0.35	2.75	3.39	1.78	2.30	3.20	1.47	2.07	2.09	0.10	0.48	
STA AV		0.53	1.12	2.13	3.01	4.37	2.92	2.53	2.57	3.92	3.15	1.39	1.00	

NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 193 and 194. STA AV values are based on 11 yr (1966-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED R-7												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.083	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.047	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.001	0.0	0.0	0.504	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.003	0.0	0.0	0.058	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.162	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.277	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.036	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.086	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0027	0.0084	0.0012	0.0092	0.0181	0.0002	0.0016	0.0	0.0	0.0
INCHES	0.0	0.0	0.103	0.312	0.044	0.344	0.697	0.009	0.058	0.000	0.0	0.0
STA A7	0.146	0.118	0.357	0.670	1.104	0.699	0.297	0.247	0.588	0.759	0.298	0.065

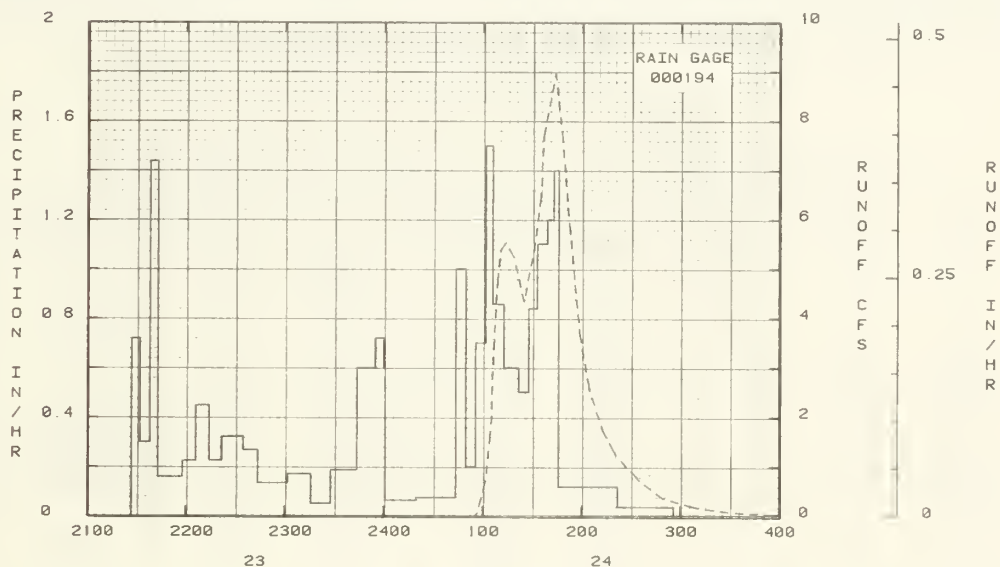
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.240315. STA A7 values are based on 11 yr (1966-75) record period.

1976	SELECTED RUNOFF EVENT					CHICKASHA, OKLAHOMA WATERSHED R-7						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JUNE 23 - 24, 1976												
RG 000194			RG 000194									
6-23	0.0		6-23	2127	0.0	0.0	6-24	55	0.0	0.0		
6-24		0.0		2132	0.7200	0.06		57	0.057	0.0001		
				2138	0.3000	0.09		102	0.721	0.0017		
				2143	1.4400	0.21		105	1.721	0.0049		
				2158	0.1600	0.25		107	3.417	0.0093		
WATERSHED CONDITIONS: Range condition class during the year was poor, with severe overgrazing.				2206	0.2250	0.28		109	4.764	0.0164		
				2214	0.4500	0.34		111	5.381	0.0251		
				2222	0.2250	0.37		114	5.543	0.0392		
				2235	0.3231	0.44		119	5.222	0.0624		
				2244	0.2667	0.48		125	4.331	0.0871		
				2302	0.1333	0.52		131	5.381	0.1122		
				2316	0.1714	0.56		135	6.395	0.1325		
				2328	0.0500	0.57		137	7.718	0.1446		
				2344	0.1875	0.62		144	8.975	0.1949		
				2355	0.6000	0.73		148	7.718	0.2237		
				2400	0.7200	0.79		153	5.707	0.2526		
			6-24	1	0.6000	0.80		159	3.665	0.2768		
				20	0.0632	0.82		205	2.531	0.2928		
				44	0.0750	0.85		213	1.721	0.3075		
				50	1.0000	0.95		221	1.219	0.3176		
				56	0.2000	0.97		235	0.721	0.3293		
				102	0.7000	1.04		250	0.342	0.3362		
				106	1.5000	1.14		311	0.153	0.3407		
				113	0.8571	1.24		329	0.067	0.3424		
				122	0.6000	1.33		401	0.020	0.3436		
				128	0.5000	1.38		435	0.005	0.3440		
				133	0.8400	1.45		523	0.001	0.3441		
				139	1.1000	1.56		713	0.0	0.3441		
				143	1.2000	1.64						
				146	1.4000	1.71						

NOTES: To convert CFS to IN/HR, multiply by 0.051680.

1976			SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED R-7				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 23 - 24, 1976 (CONTINUED)										
			6-24	222	0.1167	1.78				
				256	0.0353	1.80				

NOTES: To convert CFS to IN/HR, multiply by 0.051680.



EVENT OF JUNE 23 - 24, 1976
CHICKASHA, OKLAHOMA WATERSHED R-7

CHICKASHA, OKLAHOMA WATERSHED R-8

LOCATION: Grady County, Oklahoma; NW 1/4 sec. 13, T. 7 N., R. 6 W., about 8-1/2 miles east and 2-1/2 miles north of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 05 min. 03 sec. N.; Long. 97 deg. 47 min. 11 sec. W.

AREA: 27.55 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								CHICKASHA, OKLAHOMA WATERSHED R-8											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	0.0	0.33	2.70	3.39	1.61	2.25	3.17	1.44	1.95	2.06	0.10	0.47	19.47					
	Q	0.0	0.0	0.063	0.185	0.008	0.349	0.543	0.060	0.073	0.013	0.0	0.0	1.292					
STA AV	P	0.95	1.18	2.14	3.01	4.45	2.86	2.56	2.49	3.94	3.15	1.43	1.02	29.19					
	Q	0.073	0.069	0.256	0.448	0.892	0.524	0.205	0.142	0.380	0.516	0.205	0.040	3.750					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		6-24	0.535	6-24	0.311	7-15	0.355	7-15	0.357	7-15	0.426	7-15	0.543	7-14	0.543	7- 8	0.543		
MAXIMUMS FOR PERIOD OF RECORD																			
		5-24	4.813	5-24	2.148	5-24	2.304	5-24	2.323	5-24	2.327	5-24	2.330	5-22	2.559	5-24	3.328		
		1973		1973		1973		1973		1973		1973		1973		1973			

NOTES: Watershed conditions: Formerly cultivated from about 1907 until about 1935, when land use was changed to pasture because of severe erosion. Range condition class during the year was poor, with severe overgrazing. The vegetative cover in Dec. 1976, based on 25 uniformly spaced clipped samples, average 210 pounds of standing grass, 104 pounds of weeds, and 480 pounds per acre of mulch. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pnb. 1226, pp. 69.45-1 and 69.45-3. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 197 and 198. Precipitation and runoff records began July 1, 1966. STA AV values are based on 11 yr (1966-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1976		DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA WATERSHED R-8							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.06	0.0	0.0		
5	0.0	0.33	0.0	0.0	0.24	0.0	0.0	0.91	0.0	0.11	0.0	0.38		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.09		
7	0.0	0.0	1.00	0.33	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0		
8	0.0	0.0	1.04	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.10	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.09	0.0		
12	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.93	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.74	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0		
15	0.0	0.0	0.0	0.81	0.0	0.0	2.49	0.0	0.0	0.03	0.0	0.0		
16	0.0	0.0	0.0	0.13	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.04	0.0	0.11	0.0	0.0	0.0	0.03	0.0	0.0		
19	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.02	0.71	0.0	0.14	0.0	0.13	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.02	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.02	0.0	0.0		
28	0.0	0.0	0.21	0.91	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.02	0.0	1.45	0.0	0.0		
30	0.0	0.0	0.0	0.12	0.14	0.0	0.0	0.0	0.0	0.03	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.22	0.0	0.0	0.0	0.0		
TOTAL	0.0	0.33	2.70	3.39	1.61	2.25	3.17	1.44	1.95	2.06	0.10	0.47		
STA AV	0.95	1.18	2.14	3.01	4.45	2.86	2.56	2.49	3.94	3.15	1.43	1.02		

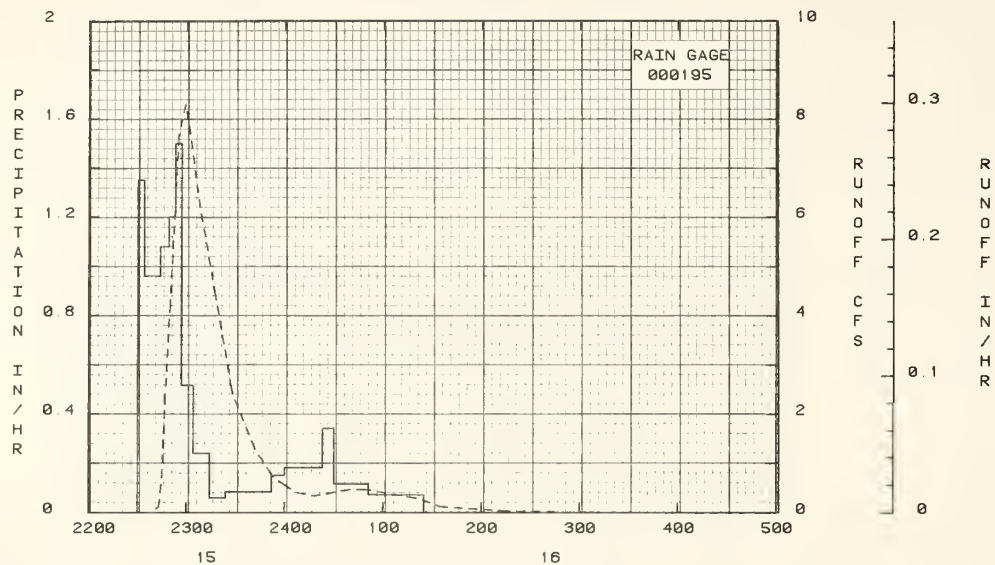
NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 197 and 198. STA AV values are based on 11 yr (1966-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASAW, OKLAHOMA WATERSHED R-8												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.064	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.072	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.028	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.056	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.024	0.0	0.0	0.601	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.005	0.0	0.0	0.027	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.134	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.403	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.051	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0023	0.0071	0.0003	0.0135	0.0203	0.0022	0.0028	0.0005	0.0	0.0
INCHES	0.0	0.0	0.063	0.185	0.008	0.349	0.543	0.060	0.073	0.013	0.0	0.0
STA AV	0.073	0.069	0.256	0.448	0.892	0.524	0.205	0.142	0.380	0.516	0.205	0.040

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.663944. STA AV values are based on 11 yr (1966-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASAW, OKLAHOMA WATERSHED R-8											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 15 - 16, 1976											
RG 000195			RG 000195								
7-15	0.0	0.357	7-15	2230	0.0	0.0	7-15	2230	0.0	0.0	
				2234	1.3500	0.09		2238	0.003	0.0000	
				2244	0.9600	0.25		2243	0.119	0.0002	
				2249	1.0800	0.34		2245	0.719	0.0007	
				2253	1.2000	0.42		2247	2.424	0.0026	
WATERSHED CONDITIONS: Range condition class during the year was poor, with severe overgrazing.				2257	1.5000	0.52		2250	4.316	0.0086	
				2304	0.5143	0.58		2255	7.688	0.0266	
				2314	0.2400	0.62		2259	8.299	0.0458	
				2324	0.0600	0.63		2302	7.688	0.0602	
				2352	0.0857	0.67		2308	6.196	0.0852	
				2400	0.1500	0.69		2318	4.316	0.1167	
			7-16	23	0.1826	0.76		2328	2.424	0.1370	
				30	0.3429	0.80		2342	1.280	0.1525	
				51	0.1143	0.84		2353	0.719	0.1591	
				125	0.0706	0.88		2400	0.547	0.1618	
							7-16	8	0.403	0.1641	
								17	0.341	0.1661	
								40	0.472	0.1717	
								48	0.472	0.1739	
								120	0.285	0.1812	
								135	0.119	0.1830	
								213	0.032	0.1848	
								250	0.011	0.1852	
								335	0.003	0.1854	
								450	0.001	0.1855	
								630	0.0	0.1855	
								830	0.0	0.1855	
								1110	0.0	0.1855	

NOTES: To convert CFS to IN/HR, multiply by 0.035998.



EVENT OF JULY 15 - 16, 1976
CHICKASHA, OKLAHOMA WATERSHED R-8

TREYNOR, IOWA WATERSHED 1

LOCATION: Pottawattamie County, Iowa; approximately 6 miles southwest of Treynor; Silver Creek, West Misshabotna River, Missouri River Basin. Lat. 41 deg. 09 min. 51 sec. N.; Long. 95 deg. 38 min. 30 sec. W.

AREA: 74.50 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								TREYNOR, IOWA WATERSHED 1											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	0.15	1.21	2.05	4.49	3.12	2.68	2.36	1.05	3.30	0.72	0.02	0.11	21.26					
	Q	0.303	0.296	0.342	0.433	0.501	0.455	0.388	0.344	0.313	0.309	0.215	0.188	4.087					
STA AV	P	0.57	0.67	1.36	3.34	4.49	4.90	3.43	3.96	4.22	2.71	1.46	0.88	31.98					
	Q	0.365	0.547	0.531	0.433	1.010	1.613	0.415	0.487	0.547	0.351	0.298	0.283	6.880					
ANNUAL MAXIMUM DISCHARGE (in/cr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		6-17	0.036	6-17	0.011	6-17	0.013	4-24	0.024	4-24	0.032	4-23	0.045	4-23	0.067	4-23	0.186		
MAXIMUMS FOR PERIOD OF RECORD																			
		6-20	5.835	6-20	3.150	6-20	4.160	6-20	4.224	6-20	4.232	6-20	4.246	6-20	4.264	6-20	5.979		
		1967		1967		1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed conditions: 93% contoured corn; 7% prairies and grassed waterways. Precipitation from rain gage 117 before April 1 and after October 30; Thiessen average of gages 116, 117, 118 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 10, 1964. January 1 to February 10, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3 (71.003). For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.1-5. For long-time precipitation records, see National Weather Service records at Omaha, Nebraska.

1976		DAILY PRECIPITATION (inches)					TREYNOR, IOWA WATERSHED 1						
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	1.19	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
	6	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0
	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0
	10	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
	12	0.0	0.0	0.05	0.0	0.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	13	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.11	1.18	0.0	0.0	0.0
	14	0.0	0.14	0.0	0.51	0.0	0.78	0.0	0.84	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.48	0.83	0.0	0.48	0.0	0.0	0.0	0.0	0.0
	16	0.0	0.33	0.0	0.03	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.86	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.0	0.0
	20	0.0	0.09	0.0	0.71	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0
	21	0.0	0.38	0.0	0.0	0.07	0.0	0.05	0.0	0.0	0.0	0.0	0.0
	22	0.0	0.0	0.0	0.0	0.80	0.0	0.06	0.0	0.0	0.0	0.0	0.0
	23	0.0	0.0	0.0	0.52	0.12	0.36	0.0	0.0	0.0	0.19	0.0	0.0
	24	0.0	0.0	0.0	1.33	0.0	0.09	0.0	0.0	0.36	0.0	0.0	0.0
	25	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.94	0.0	0.0	0.0
	26	0.0	0.0	0.0	0.0	0.0	0.83	0.69	0.02	0.0	0.0	0.0	0.0
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.72	0.0	0.0	0.0	0.0	0.0
	28	0.0	0.0	0.0	0.0	0.53	0.0	0.19	0.0	0.0	0.0	0.0	0.0
	29	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	30	0.02	0.0	0.20	0.01	0.0	0.0	0.09	0.0	0.0	0.11	0.02	0.0
	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL		0.15	1.21	2.05	4.49	3.12	2.68	2.36	1.05	3.30	0.72	0.02	0.11
STA AV		0.57	0.67	1.36	3.34	4.49	4.90	3.43	3.96	4.22	2.71	1.46	0.88

NOTES: Daily precipitation amounts are from rain gage 117 before April 1 and after October 30; Thiessen weighted average values from Stations 116, 117, and 118 for remainder of year. STA AV values are based on 13 yr record period.

TREYNOR, IOWA WATERSHED 1												
1976 MEAN DAILY DISCHARGE (cfs)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.031	0.031	0.038	0.031	0.055	0.046	0.041	0.037	0.029	0.031	0.031	0.019
2	0.031	0.031	0.038	0.029	0.052	0.046	0.041	0.036	0.029	0.031	0.031	0.019
3	0.034	0.035	0.038	0.029	0.052	0.046	0.043	0.040	0.029	0.031	0.031	0.019
4	0.031	0.032	0.038	0.029	0.050	0.046	0.041	0.042	0.029	0.034	0.031	0.019
5	0.031	0.031	0.038	0.029	0.046	0.046	0.039	0.044	0.029	0.031	0.031	0.019
6	0.034	0.027	0.035	0.029	0.046	0.046	0.036	0.043	0.029	0.031	0.031	0.019
7	0.032	0.026	0.038	0.031	0.046	0.046	0.038	0.043	0.029	0.031	0.031	0.019
8	0.028	0.029	0.039	0.031	0.046	0.043	0.039	0.040	0.032	0.031	0.031	0.019
9	0.028	0.028	0.049	0.031	0.046	0.043	0.035	0.035	0.031	0.031	0.025	0.019
10	0.031	0.026	0.042	0.031	0.043	0.044	0.035	0.036	0.029	0.031	0.019	0.019
11	0.031	0.026	0.043	0.031	0.046	0.043	0.034	0.038	0.029	0.031	0.019	0.019
12	0.031	0.027	0.039	0.031	0.056	0.043	0.035	0.033	0.030	0.031	0.019	0.019
13	0.031	0.028	0.031	0.031	0.046	0.044	0.035	0.036	0.050	0.031	0.019	0.019
14	0.031	0.031	0.031	0.041	0.046	0.065	0.035	0.053	0.031	0.031	0.019	0.019
15	0.032	0.032	0.031	0.046	0.065	0.046	0.045	0.036	0.031	0.031	0.019	0.019
16	0.031	0.033	0.031	0.037	0.061	0.044	0.036	0.035	0.031	0.031	0.019	0.019
17	0.031	0.022	0.031	0.063	0.051	0.082	0.036	0.034	0.031	0.031	0.019	0.019
18	0.031	0.025	0.031	0.040	0.046	0.049	0.035	0.031	0.031	0.032	0.019	0.019
19	0.031	0.025	0.031	0.035	0.046	0.044	0.034	0.031	0.042	0.031	0.019	0.019
20	0.031	0.026	0.031	0.050	0.046	0.043	0.037	0.031	0.031	0.031	0.019	0.019
21	0.031	0.031	0.031	0.043	0.047	0.043	0.043	0.031	0.031	0.031	0.019	0.019
22	0.031	0.032	0.031	0.038	0.067	0.043	0.043	0.031	0.031	0.031	0.019	0.019
23	0.031	0.039	0.030	0.042	0.058	0.051	0.039	0.029	0.031	0.032	0.019	0.019
24	0.031	0.043	0.031	0.140	0.050	0.053	0.035	0.029	0.033	0.031	0.019	0.019
25	0.031	0.048	0.031	0.068	0.046	0.043	0.035	0.029	0.059	0.031	0.019	0.019
26	0.031	0.043	0.031	0.065	0.046	0.063	0.044	0.029	0.037	0.031	0.019	0.019
27	0.028	0.044	0.031	0.065	0.046	0.052	0.060	0.029	0.031	0.031	0.019	0.019
28	0.026	0.040	0.030	0.065	0.073	0.041	0.048	0.029	0.031	0.031	0.019	0.019
29	0.026	0.038	0.037	0.065	0.054	0.040	0.040	0.029	0.031	0.031	0.019	0.019
30	0.028		0.035	0.057	0.046	0.040	0.041	0.028	0.031	0.031	0.019	0.019
31	0.031		0.031		0.046		0.036	0.028		0.031		0.019
MEAN	0.0306	0.0320	0.0345	0.0452	0.0506	0.0475	0.0392	0.0347	0.0327	0.0312	0.0224	0.0190
INCHES	0.303	0.296	0.342	0.433	0.501	0.455	0.388	0.344	0.313	0.309	0.215	0.188
STA AV	0.365	0.547	0.531	0.433	1.010	1.613	0.415	0.487	0.547	0.351	0.298	0.283

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.31949. STA AV values are based on 13 yr (1964-76) record period.

TREYNOR, IOWA WATERSHED 2

LOCATION: Pottawattamie County, Iowa; approximately 6 miles southwest of Treynor; Keg Creek, Missouri River Basin.
Lat. 41 deg. 10 min. 10 sec. N.; Long. 95 deg. 39 min. 00 sec. W.

AREA: 82.80 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										TREYNOR, IOWA WATERSHED 2									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	0.15	1.21	2.05	4.39	2.94	2.74	2.59	1.03	3.30	0.71	0.02	0.11	21.24					
	Q	0.571	0.544	0.591	0.531	0.542	0.442	0.366	0.309	0.271	0.287	0.283	0.267	5.005					
STA AV	P	0.57	0.67	1.40	3.27	4.42	4.66	3.37	3.89	4.27	2.71	1.47	0.68	31.79					
	Q	0.464	0.672	0.635	0.461	0.899	1.564	0.410	0.496	0.580	0.416	0.353	0.371	7.323					
ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		6-17	0.050	6-17	0.015	6-17	0.016	6-17	0.019	6-17	0.023	4-23	0.033	4-23	0.054	4-23	0.186		
MAXIMUMS FOR PERIOD OF RECORD																			
		6-20	4.866	6-20	2.701	6-20	3.693	6-20	3.780	6-20	3.786	6-20	3.796	6-20	3.810	6-4	5.531		
		1967		1967		1967		1967		1967		1967		1967		1967			

NOTES: Watershed conditions: 93% contoured corn; 7% gullies and grassed waterways. Precipitation from rain gage 117 before April 1 and after October 30; Thiessen average of rain gages 115, 116, and 118 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 3, 1964. January 1 to February 3, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3 (71.003). For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.2-5. For long-time precipitation records, see National Weather Service records at Omaha, Nebraska.

1976	DAILY PRECIPITATION (inches)												TREYNOR, IOWA WATERSHED 2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	1.19	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0		
5	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05		
6	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0		
10	0.0	0.3	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.3	0.11	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.05	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.3	0.0	0.02	0.0	0.0	0.0	0.11	1.13	0.0	0.0	0.0		
14	0.3	0.14	0.0	0.49	0.0	0.76	0.0	0.76	0.0	0.0	0.0	0.0		
15	0.0	0.3	0.0	0.45	0.81	0.0	0.52	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.33	0.0	0.03	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.06	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.74	0.0	0.0	0.0		
20	0.0	0.09	0.0	0.70	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.38	0.0	0.0	0.06	0.0	0.05	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.73	0.0	0.04	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.53	0.12	0.35	0.0	0.0	0.0	0.21	0.0	0.0		
24	0.0	0.0	0.0	1.27	0.0	0.10	0.0	0.0	0.34	0.0	0.0	0.0		
25	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.0	0.0	0.0		
26	0.0	0.3	0.0	0.0	0.0	0.89	0.87	0.04	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.45	0.0	0.14	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.02	0.20	0.01	0.0	0.0	0.0	0.09	0.0	0.0	0.10	0.02	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.15	1.21	2.05	4.39	2.94	2.74	2.59	1.03	3.30	0.71	0.02	0.11		
STA AV	0.57	0.67	1.40	3.27	4.42	4.66	3.37	3.89	4.27	2.71	1.47	0.88		

NOTES: Daily precipitation amounts are Thiessen weighted average values from stations 115, 116, and 118 for period of April 1 through October 30, and from station 117 for remainder of year. STA AV values are based on 13 yr (1964-76) record period.

TREYNOR, IOWA WATERSHED 2												
1976	MEAN DAILY DISCHARGE (cfs)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.064	0.064	0.064	0.064	0.074	0.052	0.045	0.037	0.030	0.030	0.033	0.033
2	0.064	0.064	0.064	0.064	0.070	0.053	0.045	0.037	0.030	0.031	0.033	0.033
3	0.064	0.064	0.064	0.064	0.068	0.054	0.045	0.040	0.029	0.033	0.033	0.033
4	0.064	0.064	0.064	0.064	0.064	0.051	0.045	0.042	0.029	0.036	0.033	0.033
5	0.064	0.064	0.064	0.064	0.064	0.051	0.042	0.045	0.029	0.031	0.033	0.033
6	0.064	0.056	0.068	0.064	0.064	0.051	0.038	0.043	0.029	0.033	0.033	0.030
7	0.063	0.059	0.069	0.064	0.064	0.050	0.041	0.040	0.025	0.031	0.033	0.027
8	0.064	0.064	0.066	0.054	0.061	0.050	0.041	0.039	0.030	0.031	0.033	0.027
9	0.064	0.065	0.073	0.047	0.061	0.048	0.039	0.036	0.029	0.031	0.033	0.027
10	0.064	0.066	0.071	0.047	0.059	0.051	0.039	0.037	0.028	0.029	0.033	0.027
11	0.064	0.064	0.073	0.047	0.060	0.048	0.035	0.037	0.027	0.029	0.033	0.027
12	0.064	0.064	0.068	0.045	0.072	0.046	0.035	0.035	0.025	0.030	0.031	0.027
13	0.064	0.057	0.064	0.045	0.064	0.045	0.036	0.039	0.047	0.031	0.033	0.027
14	0.064	0.052	0.064	0.056	0.064	0.063	0.038	0.054	0.031	0.030	0.033	0.027
15	0.065	0.064	0.064	0.057	0.075	0.050	0.054	0.037	0.031	0.031	0.033	0.027
16	0.064	0.075	0.064	0.048	0.065	0.050	0.041	0.036	0.030	0.033	0.033	0.027
17	0.064	0.064	0.064	0.069	0.057	0.098	0.039	0.032	0.029	0.033	0.033	0.027
18	0.064	0.064	0.064	0.050	0.052	0.052	0.035	0.033	0.028	0.035	0.033	0.027
19	0.064	0.064	0.064	0.047	0.052	0.047	0.035	0.030	0.045	0.033	0.033	0.027
20	0.064	0.064	0.061	0.059	0.052	0.044	0.038	0.030	0.029	0.033	0.033	0.028
21	0.064	0.054	0.064	0.055	0.054	0.042	0.046	0.029	0.029	0.033	0.033	0.026
22	0.064	0.068	0.064	0.050	0.070	0.043	0.044	0.029	0.028	0.033	0.031	0.033
23	0.064	0.075	0.064	0.054	0.060	0.051	0.040	0.029	0.026	0.036	0.033	0.033
24	0.064	0.074	0.064	0.112	0.052	0.054	0.034	0.029	0.032	0.033	0.033	0.033
25	0.064	0.076	0.071	0.072	0.051	0.044	0.034	0.029	0.056	0.033	0.033	0.033
26	0.064	0.057	0.067	0.070	0.050	0.061	0.044	0.029	0.036	0.033	0.033	0.033
27	0.064	0.067	0.064	0.074	0.050	0.056	0.061	0.029	0.031	0.033	0.033	0.033
28	0.065	0.056	0.064	0.080	0.067	0.044	0.044	0.029	0.033	0.033	0.033	0.033
29	0.064	0.064	0.077	0.083	0.059	0.043	0.042	0.028	0.031	0.033	0.033	0.033
30	0.064		0.074	0.079	0.055	0.044	0.042	0.026	0.030	0.033	0.033	0.033
31	0.064		0.064		0.055		0.036	0.028		0.033		0.033
MEAN	0.0640	0.0653	0.0663	0.0616	0.0609	0.0513	0.0410	0.0347	0.0314	0.0322	0.0329	0.0300
INCHES	0.571	0.544	0.591	0.531	0.542	0.442	0.366	0.309	0.271	0.287	0.283	0.267
STA AV	0.464	0.672	0.635	0.461	0.899	1.564	0.410	0.496	0.580	0.416	0.353	0.371

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.28746. STA AV values are based on 13 yr (1964-76) record period.

TREYNOR, IOWA WATERSHED 3

LOCATION: Pottawattamie County, Iowa; approximately 3 miles southwest of Treynor; Silver Creek, West Nishnabotna River, Missouri River Basin. Lat. 41 deg. 12 min. 36 sec. N.; Long. 95 deg. 38 min. 05 sec. W.

AREA: 107.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													TREYNOR, IOWA WATERSHED 3	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.12	1.14	1.95	3.97	2.99	4.00	3.42	1.85	3.40	0.87	0.02	0.11	23.85
	Q	0.332	0.323	0.470	0.540	0.767	0.998	0.605	0.450	0.245	0.229	0.188	0.199	5.344
STA AV	P	1.59	0.63	1.35	3.25	4.58	5.03	3.24	3.39	4.25	2.71	1.40	0.85	31.28
	Q	0.369	0.562	0.624	0.511	0.692	0.899	0.565	0.384	0.345	0.394	0.362	0.371	6.078
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
		Maximum Discharge Date	1 Hour Date	2 Hours Date	Maximum Volume for Selected Time Interval 6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date					
1976		6-27	6-27	6-26	6-26	6-26	6-26	6-26	6-26	6-26	6-26	6-26	6-26	6-26
		0.915	0.255	0.283	0.296	0.395	0.317	0.340	0.474					
MAXIMUMS FOR PERIOD OF RECORD														
		6-20	6-20	6-20	6-20	6-20	6-20	6-20	6-20	6-20	6-20	6-20	6-14	6-14
		1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967
		2.010	1.005	1.287	1.336	1.350	1.371	1.403	1.741					

NOTES: Watershed conditions: 66% corn, conservation tillage; 14% grassed waterway, roads and farmstead. Precipitation: Arithmetic average of rain gages 113 and 114 before April 1 and after October 30; Thiessen average of gages 112, 113 and 114 for remainder of year. Precipitation records began January 1, 1964. Runoff records began January 2, 1964, January 1, 1964 runoff estimated and included in average. For topographic map of watershed, see hydrologic data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.3-4. For long-time precipitation records, see National Weather Service records at Omaha, Nebraska.

1976 DAILY AIR TEMPERATURE (degrees F)													TREYNOR, IOWA WATERSHED 3	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min
1	36 27	38 17	34 26	66 31	69 40	83 59	80 54	76 57	80 61	90 49	65 35	27 7		
2	27 10	19 6	34 27	77 42	56 31	81 60	80 61	80 59	85 56	87 52	59 35	27 15		
3	10 -1	41 7	29 19	52 34	61 26	81 55	79 60	92 56	93 61	85 59	47 26	43 16		
4	15 -6	15 7	26 15	55 37	78 39	83 53	81 54	88 66	85 54	68 52	33 20	36 20		
5	37 15	16 8	22 7	77 34	75 53	85 61	84 57	86 70	85 56	59 46	51 19	32 29		
6	30 -4	21 3	38 11	76 44	61 41	85 61	88 58	75 63	85 65	55 31	56 29	28 -5		
7	0 -11	44 11	35 24	59 50	64 37	87 58	90 66	78 51	91 63	54 34	39 22	13 -6		
8	9 -8	47 25	36 25	66 41	72 39	89 63	92 65	63 59	71 53	64 30	57 19	15 -9		
9	24 -3	55 31	44 26	79 38	73 43	92 66	99 72	90 63	72 47	63 39	61 33	49 14		
10	35 17	47 33	40 31	75 48	84 46	90 66	96 73	92 71	81 45	77 39	47 23	29 -1		
11	40 14	53 25	56 30	60 42	78 48	101 65	99 74	90 66	87 45	84 47	28 13	40 -3		
12	44 28	63 37	49 20	65 27	62 52	94 68	96 73	91 64	87 57	76 50	26 7	32 11		
13	39 13	46 27	41 13	80 42	66 42	96 62	96 72	86 64	77 59	69 45	29 14	37 9		
14	39 7	52 26	43 27	85 58	64 52	86 63	94 72	76 64	79 59	83 47	39 13	51 26		
15	52 22	55 39	41 28	80 57	67 45	67 54	85 66	73 63	73 56	53 31	45 20	49 25		
16	25 15	41 34	41 24	72 56	59 51	85 51	78 56	83 62	76 53	43 23	49 21	52 25		
17	27 7	52 32	59 26	66 53	69 43	92 62	86 58	91 71	77 54	45 19	65 30	56 33		
18	43 17	57 33	72 41	62 56	72 42	69 52	90 62	92 70	67 57	37 32	70 39	67 31		
19	39 9	54 31	78 43	66 40	86 49	77 51	94 76	86 66	74 59	35 33	45 35	43 15		
20	47 1	53 33	60 34	55 47	89 56	84 54	94 74	86 60	65 47	51 25	45 27	17 6		
21	42 32	33 19	47 26	66 44	85 60	85 55	80 72	90 63	75 48	47 27	37 23	27 0		
22	45 19	42 19	60 28	68 47	72 54	86 61	86 70	90 66	88 49	56 19	34 14	34 19		
23	55 26	47 27	72 26	79 54	57 49	78 62	96 72	90 66	65 45	45 33	37 23	27 8		
24	43 25	51 33	65 43	59 37	68 52	78 59	88 62	86 65	75 49	39 33	59 23	46 22		
25	35 12	55 31	67 42	56 37	72 47	88 55	89 61	85 62	60 54	45 28	61 34	44 21		
26	22 5	62 33	67 38	54 35	71 48	90 62	88 68	95 65	69 54	41 31	37 19	38 25		
27	23 -2	70 37	61 28	53 43	77 54	77 61	87 69	32 60	58 45	45 27	19 2	61 27		
28	51 17	57 31	68 43	57 44	83 54	87 63	88 72	84 54	57 47	49 27	15 -3	27 3		
29	51 25	43 27	53 39	59 45	75 58	75 63	86 69	86 51	69 40	50 25	22 0	23 3		
30	42 26		42 33	66 45	74 55	78 55	84 66	89 57	85 41	33 40	31 3	16 -11		
31	43 24		52 33		78 55		80 64	67 57		57 31		9 -13		
AV.	35 12	46 25	49 28	66 44	72 47	84 59	88 66	85 62	77 53	58 36	44 21	35 12		
MEAN	23.4	35.5	38.8	55.1	59.5	71.9	77.4	73.6	65.1	46.9	32.2	23.5		
STA AV	29 11	35 17	46 25	61 38	74 51	82 60	87 65	83 62	74 52	64 42	46 27	32 18		

NOTES: Temperature data taken from hygrothermograph charts. The recording period is from 0001 to 2400 for the date shown. STA AV values based on 13 yr record period beginning 1964.

1976 DAILY PRECIPITATION (inches) TREYNOR, IOWA WATERSHED 3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	1.07	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.05
6	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0
12	0.0	0.0	0.09	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.16	1.41	0.0	0.0	0.0
14	0.0	0.13	0.0	0.43	0.0	0.85	0.0	0.93	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.36	0.72	0.0	0.46	0.0	0.0	0.0	0.0	0.0
16	0.0	0.36	0.0	0.03	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.82	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.16	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.81	0.0	0.0	0.0
20	0.0	0.13	0.0	0.64	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0
21	0.0	0.33	0.0	0.0	0.06	0.0	0.10	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.68	0.0	0.19	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.56	0.15	0.30	0.0	0.0	0.0	0.41	0.0	0.0
24	0.0	0.0	0.0	1.06	0.0	0.03	0.0	0.0	0.37	0.0	0.0	0.0
25	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	1.45	1.53	0.05	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.73	0.91	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.57	0.0	0.14	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.57	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
30	0.02	0.09	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.02	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.12	1.14	1.96	3.97	2.99	4.00	3.42	1.85	3.40	0.87	0.02	0.11
STA AV	0.59	0.63	1.35	3.25	4.58	5.03	3.24	3.39	4.25	2.71	1.40	0.85

NOTES: Daily precipitation amounts are arithmetic average values from stations 113 and 114 before April 1 and after October 30; Thiessen weighted average values from rain gages 112, 113 and 114 for remainder of year. STA AV values based on 13 yr (1964-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) TREYNOR, IOWA WATERSHED 3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.055	0.047	0.059	0.073	0.105	0.110	0.100	0.079	0.044	0.031	0.031	0.027
2	0.055	0.047	0.064	0.073	0.105	0.112	0.101	0.078	0.044	0.032	0.029	0.027
3	0.048	0.047	0.058	0.073	0.105	0.112	0.101	0.078	0.043	0.032	0.027	0.027
4	0.051	0.047	0.055	0.073	0.105	0.112	0.101	0.077	0.042	0.035	0.031	0.027
5	0.055	0.047	0.058	0.073	0.105	0.113	0.099	0.078	0.041	0.030	0.033	0.027
6	0.052	0.047	0.064	0.073	0.105	0.112	0.098	0.079	0.037	0.032	0.031	0.027
7	0.047	0.047	0.064	0.073	0.111	0.112	0.094	0.081	0.034	0.031	0.033	0.027
8	0.047	0.047	0.064	0.073	0.111	0.111	0.094	0.078	0.039	0.032	0.033	0.027
9	0.047	0.047	0.064	0.073	0.110	0.112	0.090	0.078	0.037	0.031	0.029	0.027
10	0.047	0.047	0.064	0.073	0.111	0.111	0.089	0.078	0.037	0.030	0.027	0.027
11	0.047	0.047	0.069	0.073	0.111	0.106	0.089	0.073	0.036	0.030	0.027	0.027
12	0.047	0.047	0.068	0.073	0.124	0.102	0.069	0.062	0.037	0.027	0.027	0.027
13	0.047	0.047	0.064	0.073	0.116	0.105	0.088	0.065	0.054	0.030	0.027	0.027
14	0.047	0.049	0.072	0.077	0.116	0.118	0.088	0.092	0.033	0.031	0.027	0.027
15	0.047	0.047	0.073	0.073	0.122	0.105	0.093	0.064	0.033	0.035	0.027	0.027
16	0.047	0.060	0.073	0.078	0.106	0.102	0.083	0.064	0.031	0.033	0.027	0.027
17	0.047	0.048	0.069	0.090	0.105	0.110	0.081	0.060	0.032	0.033	0.027	0.027
18	0.047	0.047	0.068	0.073	0.105	0.105	0.079	0.060	0.033	0.038	0.027	0.027
19	0.047	0.047	0.064	0.073	0.105	0.102	0.078	0.061	0.044	0.033	0.027	0.023
20	0.047	0.047	0.064	0.080	0.105	0.101	0.079	0.061	0.031	0.033	0.027	0.024
21	0.047	0.047	0.072	0.074	0.106	0.100	0.083	0.061	0.031	0.033	0.027	0.029
22	0.047	0.051	0.073	0.073	0.120	0.098	0.085	0.064	0.030	0.038	0.027	0.033
23	0.047	0.053	0.073	0.081	0.117	0.095	0.079	0.060	0.031	0.043	0.027	0.033
24	0.047	0.055	0.073	0.105	0.112	0.102	0.078	0.057	0.034	0.039	0.027	0.033
25	0.047	0.066	0.073	0.094	0.111	0.095	0.075	0.052	0.047	0.039	0.027	0.033
26	0.047	0.058	0.073	0.094	0.111	0.117	0.090	0.051	0.036	0.034	0.027	0.033
27	0.047	0.055	0.073	0.096	0.113	1.401	0.095	0.050	0.033	0.033	0.027	0.033
28	0.047	0.055	0.073	0.103	0.119	0.102	0.080	0.048	0.033	0.033	0.027	0.033
29	0.047	0.055	0.082	0.105	0.116	0.101	0.080	0.044	0.032	0.033	0.027	0.033
30	0.047	0.078	0.105	0.105	0.116	0.100	0.078	0.044	0.032	0.033	0.027	0.033
31	0.047	0.073	0.073	0.116	0.116	0.100	0.078	0.044	0.032	0.033	0.027	0.033
MEAN	0.0461	0.0500	0.0682	0.0809	0.1112	0.1095	0.0877	0.0652	0.0367	0.0332	0.0282	0.0288
INCHES	0.332	0.323	0.470	0.540	0.767	0.598	0.605	0.450	0.245	0.229	0.186	0.199
STA AV	0.366	0.562	0.624	0.511	0.692	0.899	0.565	0.384	0.345	0.394	0.362	0.371

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.22245. STA AV values are based on 13 yr (1964-76) record period.

TREYNOR, IOWA WATERSHED 4

LOCATION: Pottawattamie County, Iowa; approximately 3 miles southwest of Treynor; Silver Creek, West Mishnabotna River, Missouri River Basin. Lat. 41 deg. 12 min. 36 sec. N.; Long. 95 deg. 38 min. 05 sec. W.

AREA: 150.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														TREYNOR, IOWA WATERSHED 4													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1976	P	0.12	1.09	1.98	4.60	3.24	4.39	3.56	2.03	3.33	0.82	0.02	0.11	25.29													
	Q	0.322	0.313	0.380	0.403	0.516	1.047	0.554	0.429	0.263	0.232	0.193	0.174	4.826													
STA AV	P	0.56	0.52	1.34	3.29	4.56	5.12	3.29	3.39	4.44	2.78	1.39	0.84	31.63													
	Q	0.482	0.489	0.691	0.594	0.924	1.075	0.800	0.560	0.582	0.545	0.499	0.488	7.729													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		Time Interval 1 Day		2 Days		8 Days											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1976		6-27	0.282	6-27	0.130	6-27	0.157	6-27	0.263	6-27	0.411	6-26	0.580	6-26	0.630	6-26	0.731										
MAXIMUMS FOR PERIOD OF RECORD																											
		6-7	0.607	6-7	0.179	5-10	0.289	5-5	0.563	5-5	0.676	5-5	1.036	5-5	1.316	5-5	1.743										
		1972		1972		1971		1972		1972		1972		1972		1972											

NOTES: Watershed conditions: 73% contoured corn above level terraces which have a capacity of 2 inches of runoff; 23% contoured corn below the bottom terraces; 3% grassed terrace backslopes; 1% gully. Precipitation from rain gage 113 before April 1 and after October 30; Thiessen average of gages 111, 112 and 113 for remainder of year. Precipitation records began January 1, 1954. Runoff records began February 27, 1964. January 1 to February 27, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3 (71.003). For revised topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1972, USDA Misc. Pub. 1412, p. 71.4-4. For long-time precipitation records, see National Weather Service records at Omaha, Nebraska.

1976		DAILY PRECIPITATION (inches)					TREYNOR, IOWA WATERSHED 4						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	1.03	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.05	
6	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.08	0.0	0.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.16	1.30	0.0	0.0	0.0	
14	0.0	0.12	0.0	0.45	0.0	0.94	0.0	0.97	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.42	0.83	0.0	0.41	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.33	0.0	0.03	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.85	0.0	0.54	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.17	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.0	0.0	0.0	
20	0.0	0.11	0.0	0.76	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.36	0.0	0.0	0.07	0.0	0.12	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.65	0.0	0.29	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.68	0.15	0.31	0.0	0.0	0.0	0.34	0.0	0.0	
24	0.0	0.0	0.0	1.34	0.0	0.10	0.0	0.0	0.35	0.0	0.0	0.0	
25	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	1.60	1.66	0.08	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.87	0.90	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.56	0.0	0.12	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.60	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
30	0.02		0.12	0.01	0.0	0.0	0.0	0.0	0.0	0.10	0.02	0.0	
31	0.0		0.0		0.0			0.0	0.0	0.0		0.0	
TOTAL	0.12	1.09	1.98	4.60	3.24	4.39	3.56	2.03	3.33	0.82	0.02	0.11	
STA AV	0.58	0.52	1.34	3.29	4.56	5.12	3.29	3.39	4.44	2.78	1.39	0.84	

NOTES: Daily precipitation amounts are Thiessen weighted average values from stations 111, 112 and 113 for period of April 1 through October 30, and from 113 for remainder of year. STA AV values are based on 13 yr record period.

TREYNOR, IOWA WATERSHED 4												
1976 MEAN DAILY DISCHARGE (cfs)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.073	0.064	0.073	0.083	0.105	0.099	0.105	0.099	0.064	0.047	0.043	0.039
2	0.066	0.064	0.073	0.083	0.105	0.094	0.105	0.099	0.064	0.047	0.039	0.039
3	0.064	0.064	0.073	0.081	0.105	0.094	0.105	0.094	0.061	0.047	0.039	0.039
4	0.071	0.054	0.066	0.083	0.103	0.094	0.105	0.094	0.061	0.049	0.046	0.039
5	0.073	0.064	0.068	0.078	0.102	0.094	0.105	0.094	0.061	0.047	0.047	0.039
6	0.067	0.064	0.075	0.073	0.105	0.094	0.105	0.094	0.059	0.047	0.047	0.039
7	0.068	0.064	0.075	0.073	0.105	0.094	0.105	0.094	0.055	0.047	0.047	0.039
8	0.064	0.064	0.073	0.073	0.105	0.094	0.105	0.094	0.058	0.047	0.047	0.039
9	0.064	0.064	0.077	0.073	0.105	0.094	0.105	0.089	0.060	0.047	0.042	0.039
10	0.064	0.064	0.080	0.073	0.101	0.094	0.105	0.087	0.055	0.047	0.039	0.039
11	0.070	0.064	0.083	0.073	0.101	0.091	0.105	0.114	0.055	0.047	0.039	0.039
12	0.068	0.064	0.084	0.073	0.111	0.090	0.105	0.083	0.055	0.047	0.039	0.039
13	0.064	0.064	0.083	0.073	0.105	0.091	0.102	0.084	0.069	0.047	0.039	0.036
14	0.064	0.055	0.083	0.077	0.105	0.102	0.105	0.298	0.055	0.046	0.039	0.033
15	0.064	0.064	0.093	0.075	0.111	0.094	0.109	0.083	0.055	0.047	0.039	0.033
16	0.064	0.072	0.083	0.074	0.105	0.091	0.102	0.083	0.055	0.047	0.039	0.033
17	0.064	0.065	0.080	0.085	0.105	0.093	0.105	0.078	0.053	0.047	0.039	0.033
18	0.064	0.064	0.076	0.079	0.102	0.094	0.101	0.073	0.053	0.047	0.039	0.033
19	0.064	0.064	0.073	0.078	0.101	0.094	0.099	0.073	0.061	0.047	0.039	0.033
20	0.064	0.064	0.073	0.081	0.101	0.094	0.094	0.069	0.052	0.047	0.039	0.033
21	0.064	0.064	0.073	0.083	0.102	0.090	0.098	0.069	0.047	0.047	0.039	0.033
22	0.064	0.068	0.082	0.083	0.110	0.088	0.106	0.067	0.047	0.047	0.039	0.033
23	0.064	0.073	0.077	0.087	0.109	0.089	0.099	0.068	0.047	0.049	0.039	0.033
24	0.064	0.078	0.073	0.117	0.105	0.091	0.094	0.069	0.049	0.047	0.039	0.033
25	0.064	0.080	0.073	0.106	0.105	0.088	0.094	0.064	0.061	0.047	0.039	0.033
26	0.064	0.078	0.073	0.105	0.105	0.541	0.136	0.068	0.055	0.047	0.039	0.033
27	0.064	0.083	0.073	0.105	0.105	3.330	0.371	0.064	0.050	0.047	0.039	0.033
28	0.064	0.083	0.079	0.105	0.111	0.188	0.117	0.064	0.047	0.047	0.039	0.033
29	0.064	0.076	0.086	0.105	0.105	0.110	0.101	0.064	0.047	0.047	0.039	0.033
30	0.064		0.087	0.105	0.105	0.105	0.098	0.064	0.047	0.047	0.039	0.033
31	0.064		0.083		0.105		0.099	0.064		0.047		0.033
MEAN	0.0654	0.0681	0.0773	0.0847	0.1050	0.2199	0.1126	0.0872	0.0553	0.0471	0.0405	0.0354
INCHES	0.322	0.313	0.380	0.403	0.516	1.047	0.554	0.429	0.263	0.232	0.193	0.174
STA AV	0.482	0.489	0.691	0.594	0.924	1.075	0.800	0.560	0.582	0.545	0.499	0.488

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.15868. STA AV values are based on 13 yr (1964-76) record period.

TIFTON, GEORGIA LITTLE RIVER WATERSHED B

LOCATION: Tift County, Georgia; approximately 3 miles west of Tifton on County Road S1983; Little River, Withlacoochee River Sub-basin, Savannah River Basin, east weir: Lat. 31 deg. 28 min. 51 sec., long. 83 deg. 34 min. 56 sec.

AREA: 82592.00 acres 129.05 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						TIPTON, GEORGIA LITTLE RIVER WATERSHED B													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1976	P	3.88	2.01	3.82	2.93	8.88	3.21	5.65	5.03	3.83	4.98	5.90	4.34	54.46					
	Q	1.184	1.128	0.780	0.337	3.760	0.333	1.038	0.337	0.631	0.515	1.196	3.568	14.807					
STA AV	P	4.68	4.96	5.20	5.19	4.25	5.28	5.83	4.63	2.68	2.23	2.63	4.17	51.72					
	Q	1.670	2.331	1.753	3.368	1.300	0.559	0.580	0.382	0.446	0.126	0.243	0.965	14.325					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		5-17	0.023	5-17	0.020	5-17	0.040	5-17	0.120	5-17	0.237	5-17	0.453	5-16	0.782	11-27	1.669		
MAXIMUMS FOR PERIOD OF RECORD																			
		4-16	0.030	4-16	0.030	4-16	0.059	4-16	0.176	4-16	0.349	4-16	0.671	4-15	1.192	4-1	3.467		
		1975		1975		1975		1975		1975		1975		1975		1973			

NOTES: Watershed Conditions: Residential, 1.0%; forest, 39.7%; commercial, 0.4%; water, 1.9%; crops, 35.8%; wetland, 2.5%; pasture, 17.8%; roads, 0.9%. For topographic and composition map showing location of rain gages see pages 74.002-21 and 74.002-22, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975, USDA Misc. Pub. 1446. Precipitation records began January 1968. Runoff records began November 25, 1971. Monthly precipitation values are weighted using the reciprocal distance squared method from 28 recording gages. Runoff station averages include part-year records. Precipitation STA AV values are for record period beginning 1971. For long-time precipitation records, see National Weather Service records at Tifton, Georgia.

1976 DAILY PRECIPITATION (inches)													
TIFTON, GEORGIA LITTLE RIVER WATERSHED B													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.71	0.0	0.0	0.39	0.08	0.67	0.0	0.01	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.19	0.02	0.25	0.0	0.0	0.0	0.0	0.0
3	0.16	0.0	0.0	0.0	0.01	0.14	0.08	0.01	0.0	0.0	0.0	0.0	0.0
4	0.01	0.0	0.0	0.0	0.0	0.03	0.27	0.0	0.18	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.01	0.52	0.0	0.0	0.0	0.0
6	0.01	0.0	0.14	0.18	0.0	0.0	1.00	0.0	0.99	0.21	0.0	0.71	
7	0.63	0.0	0.01	0.0	1.33	0.0	0.0	0.31	1.23	0.02	0.0	0.37	
8	0.54	0.0	0.01	0.0	0.18	0.0	0.0	0.03	0.26	1.85	0.0	0.01	
9	0.01	0.0	0.19	0.0	0.03	0.01	0.0	0.57	0.03	0.02	0.01	0.0	
10	0.0	0.0	0.0	0.0	0.02	0.01	0.03	0.0	0.0	0.0	0.0	0.0	
11	0.03	0.0	0.0	0.0	0.11	0.01	0.0	0.0	0.0	0.0	0.0	0.54	
12	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.36	
13	0.01	0.0	0.49	0.06	0.12	0.0	0.0	0.05	0.0	0.0	0.0	0.04	
14	0.14	0.0	0.54	0.01	2.10	0.0	0.0	0.01	0.16	0.0	0.18	0.24	
15	0.0	0.0	0.39	0.0	1.13	0.0	0.0	0.0	0.02	0.0	0.07	0.05	
16	0.18	0.0	0.38	0.0	0.36	0.01	0.0	0.22	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.04	0.25	1.17	0.09	0.0	0.75	0.66	0.0	
18	0.0	0.28	0.0	0.0	0.02	0.01	0.05	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.11	0.15	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	1.54	0.27	0.34	
21	0.0	0.08	0.15	0.0	0.0	0.0	0.0	0.06	0.09	0.0	0.01	0.0	
22	0.0	0.94	0.09	0.0	1.53	0.01	0.07	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.03	0.0	1.20	0.0	0.02	0.32	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.04	0.07	0.0	0.02	0.01	0.0	0.0	0.0	
25	0.0	0.0	0.01	0.24	0.12	0.0	0.0	0.0	0.03	0.40	0.0	0.99	
26	1.51	0.0	0.0	0.0	0.01	0.40	1.49	3.04	0.06	0.0	2.15	0.03	
27	0.64	0.0	0.44	0.0	0.03	0.47	0.01	0.02	0.09	0.0	1.46	0.0	
28	0.0	0.0	0.02	0.0	0.10	0.48	0.06	0.0	0.08	0.0	0.77	0.25	
29	0.0	0.0	0.01	0.35	0.0	0.41	0.10	0.0	0.07	0.0	0.17	0.0	
30	0.0	0.0	0.0	2.09	0.0	0.27	0.02	0.0	0.0	0.08	0.0	0.0	
31	0.01		0.91		0.0		0.0	0.0		0.0		0.41	
TOTAL	3.88	2.01	3.82	2.93	8.88	3.21	5.65	5.03	3.83	4.98	5.90	4.34	
STA AV	4.68	4.96	5.20	5.19	4.25	5.28	5.83	4.63	2.68	2.23	2.63	4.17	

NOTES: Values are weighted using Reciprocal Distance Squared Method from 28 recording gages. STA AV values are based on 6 yr (1971-76) record period.

In Cooperation with University of Georgia College of Agriculture Experiment Stations, Georgia
Institute of Technology, and Middle South Georgia Soil Conservation District

1976 MEAN DAILY DISCHARGE (cfs) TIFTON, GEORGIA LITTLE RIVER WATERSHED B												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	101.8	294.9	69.1	144.1	27.7	144.7	187.6	26.7	51.5	2.2	38.1	1100.4
2	126.0	275.6	59.0	188.2	127.5	129.6	261.0	14.0	24.0	2.2	34.1	720.1
3	137.0	245.9	52.8	220.7	253.0	116.2	155.5	8.7	13.4	2.1	33.6	473.4
4	124.2	244.6	48.1	161.2	232.8	101.1	140.9	5.9	8.6	1.9	31.0	344.1
5	94.2	233.0	43.2	99.7	144.6	108.8	118.5	4.1	7.1	1.7	26.8	277.0
6	72.9	192.9	40.0	63.6	64.6	123.3	159.5	2.8	6.6	1.5	22.7	250.0
7	60.0	150.4	38.4	47.4	48.2	91.5	297.4	2.1	40.8	1.4	20.1	329.6
8	90.1	125.0	36.3	39.7	280.9	61.0	493.3	3.1	263.3	1.6	18.2	386.3
9	121.8	112.0	37.5	37.8	378.6	40.0	375.5	2.9	446.5	9.5	16.4	447.7
10	155.9	99.6	43.0	34.1	272.6	27.2	246.2	2.1	441.4	25.1	15.9	496.9
11	194.9	88.8	48.7	27.1	196.7	18.9	120.5	1.4	325.6	94.1	15.4	448.4
12	187.9	82.7	51.3	20.6	119.6	13.3	58.8	2.2	189.2	138.6	14.6	396.9
13	140.2	80.4	49.3	16.5	75.0	9.3	34.7	24.3	95.6	80.6	13.6	442.1
14	105.0	76.2	56.1	13.2	70.4	6.5	21.9	23.0	52.1	38.6	12.7	494.0
15	88.8	70.7	75.7	10.6	467.0	4.6	13.4	12.2	35.0	21.9	13.3	507.7
16	85.3	65.7	139.2	9.2	654.8	3.5	8.1	6.8	28.5	14.5	14.6	477.6
17	91.4	62.2	194.7	8.3	1549.7	3.1	4.9	4.1	27.2	19.5	19.2	417.8
18	85.9	60.6	246.1	7.5	1137.7	6.0	5.6	2.5	25.7	32.6	38.3	357.7
19	76.6	65.6	261.5	6.0	568.3	7.0	14.9	1.4	21.9	25.7	54.9	303.5
20	69.8	65.1	199.8	4.4	405.5	5.9	35.8	0.9	17.8	50.6	83.6	252.2
21	61.1	74.1	126.1	3.2	249.8	5.6	65.5	0.6	14.6	104.9	104.5	227.3
22	53.2	89.1	86.7	2.4	178.1	6.8	36.5	0.4	12.1	157.4	95.3	225.1
23	48.7	98.5	71.7	1.7	579.1	7.9	18.6	0.2	9.5	228.6	85.6	238.5
24	45.9	148.2	73.1	1.2	1079.6	9.3	12.2	0.2	7.3	190.9	72.5	238.8
25	42.7	243.0	76.7	0.8	1306.8	8.3	7.0	0.1	5.7	121.6	53.8	214.7
26	45.7	245.9	73.1	0.6	1029.1	5.9	4.0	0.1	4.8	93.9	53.7	296.4
27	109.7	149.3	68.0	0.4	541.3	4.3	2.5	0.6	3.9	79.6	193.4	361.0
28	215.4	95.2	67.2	0.2	366.6	13.2	64.4	25.1	3.3	72.6	553.2	453.1
29	363.1	79.1	72.4	0.2	262.7	19.9	342.5E	452.1	2.7	67.7	1118.4	488.4
30	501.1		96.9	0.3	207.0	52.4	224.0E	388.0	2.4	58.1	1284.6	389.8
31	408.8		105.3		173.4		71.2	149.5		46.4		326.3
MEAN	132.56	134.96	87.34	39.02	420.85	38.50	116.20	37.67	72.93	57.66	138.39	399.38
INCHES	1.164	1.128	0.780	0.337	3.760	0.333	1.038	0.337	0.631	0.515	1.196	3.568
STA AV	1.670	2.931	1.753	3.363	1.300	0.559	0.580	0.382	0.446	0.126	0.243	0.965

NOTES: To convert runoff in CPS to IN/DAY, multiply by 0.0002881. STA AV values are based on 6 yr (1971-76) record period.

1976 SELECTED RUNOFF EVENT TIFTON, GEORGIA LITTLE RIVER WATERSHED B											
ANTECEDENT CONDITIONS			RAINFALL						RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 3 - 17, 1976											
RG 000022											
9- 4	0.0		9- 4	1859	0.0	0.0	9- 3	2400	10.521	0.0	
9- 3		0.004		2020	0.0741	0.10	9- 4	645	9.047	0.0000	
				2140	0.0750	0.20		1555	8.038	0.0002	
			9- 5	1430	0.0	0.20		2400	7.719	0.0010	
				1435	1.1999	0.30	9- 5	845	7.106	0.0010	
WATERSHED CONDITIONS:											
Residential, 1.0%; water, 1.9%; crops, 35.8%; wet-land, 2.5%; pasture, 17.8%; roads, 0.9%; commercial, 0.4%; forest, 39.7%.											
			9- 6	1330	0.0	0.30		1855	6.812	0.0013	
				1350	0.6000	0.50		2400	6.248	0.0013	
				1400	0.6000	0.60	9- 6	1115	5.717	0.0015	
				1450	0.1200	0.70		2010	7.719	0.0015	
				1810	0.0300	0.80		2400	8.366	0.0015	
			9- 7	1820	1.2000	1.00	9- 7	605	10.521	0.0016	
				539	0.0	1.00		1020	22.146	0.0016	
				605	0.2308	1.10		1435	35.625	0.0016	
				630	0.2400	1.20		1750	51.419	0.0017	
				645	1.2000	1.50		1925	68.564	0.0017	
				650	2.4001	1.70		2100	94.021	0.0018	
				655	1.1999	1.80		2245	129.125	0.0024	
				700	1.2001	1.90		2400	148.422	0.0026	
				715	0.4000	2.00	9- 8	130	172.001	0.0028	
				1205	0.0207	2.10		250	187.277	0.0030	
			9- 8	819	0.0	2.10		410	195.242	0.0037	
				1220	0.0249	2.20		505	203.433	0.0039	
				1620	0.0250	2.30		625	209.012	0.0050	
			9- 9	1645	0.2400	2.40		715	217.575	0.0052	
				829	0.0	2.40		830	223.413	0.0059	
				1215	0.0265	2.50		945	235.398	0.0061	
				1600	0.0267	2.60		1105	244.660	0.0068	
			9-14	1155	0.0	2.60		1155	254.161	0.0071	
				1200	1.2001	2.70		1310	263.903	0.0079	
								1355	273.891	0.0081	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000012.

1976 SELECTED RUNOFF EVENT			TIFTON, GEORGIA LITTLE RIVER WATERSHED B					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date Mo-Day	Painfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day
								Rate (cfs)
								Acc. (inches)
EVENT OF SEPTEMBER 3 - 17, 1976 (CONTINUED)								
				9- 8			1455	280.687
							1600	294.611
							1715	305.353
							1755	323.825
							1850	331.419
							1940	343.030
							2040	350.913
							2130	362.968
							2230	371.156
							2325	383.667
				9- 9			2400	387.903
							45	396.451
							145	400.781
							225	409.520
							325	413.944
							415	418.391
							500	427.385
							545	427.385
							550	431.928
							640	431.928
							645	436.511
							740	436.511
							745	441.117
							840	441.117
							845	445.758
							950	445.758
							955	450.436
							1115	450.436
							1120	455.141
							1250	455.141
							1255	459.875
							1440	459.875
							1455	464.653
							1825	464.653
							1900	469.456
				9-10			2400	469.456
							145	469.456
							220	464.653
							520	464.653
							600	459.875
							825	459.875
							830	455.141
							1015	455.141
							1020	450.436
							1140	450.436
							1220	445.758
							1300	445.758
							1320	441.117
							1415	441.117
							1430	436.511
							1520	436.511
							1555	431.928
							1630	427.385
							1720	427.385
							1725	422.875
							1825	422.875
							1830	418.391
							1925	418.391
							1930	413.944
							2015	413.944
							2020	409.520
							2105	409.520
							2110	405.135
							2200	405.135
							2205	400.781
							2255	400.781
							2300	396.451
							2350	396.451
							2400	392.163
				9-11			45	392.163
							50	387.903
							215	393.667
							220	379.469
							305	379.469
							355	371.156

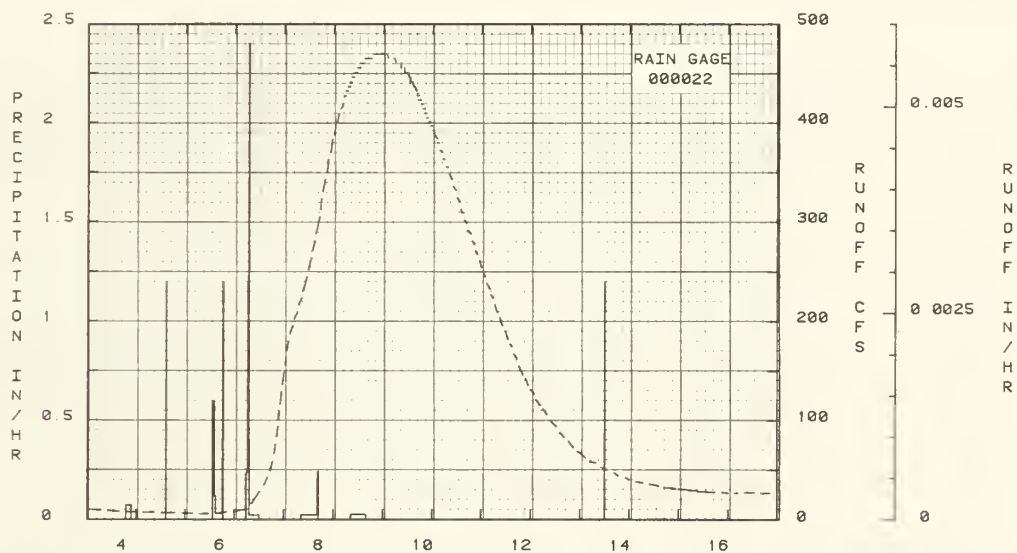
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000012.

1976 SELECTED RUNOFF EVENT			TIFTON, GEORGIA LITTLE RIVER WATERSHED B							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 3 - 17, 1976 (CONTINUED)										
							9-11	440	371.156	0.2525
								525	362.968	0.2529
								610	362.968	0.2562
								650	354.904	0.2565
								735	354.904	0.2590
								825	346.956	0.2594
								935	343.030	0.2611
								1020	335.260	0.2618
								1120	331.419	0.2631
								1215	323.825	0.2637
								1320	320.075	0.2650
								1415	308.988	0.2653
								1515	308.988	0.2663
								1545	301.746	0.2666
								1645	298.162	0.2680
								1725	291.091	0.2683
								1835	287.592	0.2701
								1915	280.687	0.2703
								2020	277.271	0.2720
								2055	270.531	0.2723
								2200	267.201	0.2736
								2310	260.625	0.2749
								2400	254.161	0.2757
							9-12	50	247.799	0.2759
								155	244.660	0.2774
								230	238.458	0.2776
								400	232.361	0.2788
								435	226.368	0.2790
								540	223.413	0.2801
								645	214.697	0.2804
								745	209.012	0.2806
								905	203.433	0.2810
								1015	195.242	0.2812
								1145	189.910	0.2819
								1250	182.091	0.2821
								1410	176.998	0.2828
								1450	174.490	0.2841
								1545	167.102	0.2842
								1710	162.293	0.2852
								1840	152.952	0.2853
								2010	146.187	0.2855
								2140	141.792	0.2862
								2250	135.359	0.2863
								2400	131.183	0.2865
							9-13	135	127.092	0.2872
								235	121.116	0.2874
								415	115.330	0.2875
								605	111.575	0.2884
								800	106.098	0.2888
								950	99.079	0.2889
								1210	94.021	0.2894
								1405	87.547	0.2895
								1610	82.891	0.2896
								1825	78.403	0.2900
								2040	72.675	0.2901
								2245	68.564	0.2901
								2400	67.230	0.2903
							9-14	20	67.230	0.2906
								235	62.065	0.2907
								450	58.369	0.2907
								745	57.169	0.2915
								1020	52.538	0.2915
								1320	50.318	0.2920
								1630	47.108	0.2924
								1845	44.036	0.2924
								2230	42.064	0.2930
								2400	40.151	0.2930
							9-15	315	38.298	0.2931
								640	37.392	0.2937
								1025	35.625	0.2942
								1425	33.914	0.2948
								1710	32.258	0.2948
								2245	31.451	0.2959
								2400	30.656	0.2963
							9-16	520	29.876	0.2975

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000012.

1976 SELECTED RUNOFF EVENT			TIFTON, GEORGIA LITTLE RIVER WATERSHED B								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 3 - 17, 1976 (CONTINUED)											
							9-16	525	29.110	0.2975	
								915	29.110	0.2989	
								930	28.355	0.2989	
								1345	28.355	0.3004	
								1400	27.615	0.3004	
								2120	27.615	0.3028	
								2400	26.887	0.3037	
							9-17	435	26.887	0.3051	
								440	27.615	0.3052	
								1235	27.615	0.3078	
								1640	26.887	0.3079	
								2400	26.887	0.3102	

NOTES: To convert runoff in cfs to in/hr, multiply by 0.000012.



EVENT OF SEPTEMBER 3 - 17, 1976
TIFTON, GEORGIA LITTLE RIVER WATERSHED B

TIFTON, GEORGIA LITTLE RIVER WATERSHED N

LOCATION: Tift County, Georgia; approximately 4 miles northwest of Tifton on County Road S1179; Beard Creek, Little River Watershed, Withlacoochee River Sub-basin, Swannee River Basin. Lat. 31 deg. 31 min. 03 sec., long. 83 deg. 35 min. 10 sec.

AREA: 3872.00 acres 6.05 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						TIFTON, GEORGIA LITTLE RIVER WATERSHED N											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	3.17	1.57	3.50	2.92	10.99	3.60	4.82	4.25	5.05	5.44	6.21	4.44	55.96			
	Q	1.338	1.034	0.823	0.370	4.333	0.561	0.837	0.155	0.914	0.760	1.835	3.032	15.992			
STA AV	P	4.36	4.70	5.30	4.98	4.94	5.21	5.46	5.38	2.92	2.74	2.27	3.92	52.19			
	Q	1.913	2.722	2.157	2.873	1.634	0.824	0.727	0.464	0.587	0.291	0.501	1.144	15.838			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge Date	1 Hour Date	2 Hours Date	Maximum Volume for Selected Time Interval												
		Date	Vol.	Date	Vol.	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date							
1976		5-15	0.074	5-15	0.074	5-15	0.147	5-15	0.397	5-15	0.603	5-15	0.783	5-22	0.992	5-7	1.610
MAXIMUMS FOR PERIOD OF RECORD																	
		2-2	0.162	2-2	0.161	2-2	0.318	2-2	0.855	2-2	1.361	2-2	1.672	4-25	2.096	3-31	3.622
		1973		1973		1973		1973		1973		1973		1973		1973	

NOTES: Watershed conditions: Residential, 1.7%; water, 2.1%; crops, 46.7%; wetland, 0.2%; pasture, 17.3%; roads, 0.9%; forest, 31.1%. For topographic and composition map showing location of rain gages, see pages 74.003-21 and 74.002-22, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975, USDA Misc. Pnh. 1446. Precipitation records began January 1968. Runoff records began November 1, 1970. Monthly precipitation values are weighted using the Reciprocal Distance Squared Method from 9 recording gages. Runoff station averages include part-year records. Precipitation station averages are for record period beginning 1970. For long-time precipitation records, see National Weather Service records at Tifton, Georgia.

1976 DAILY PRECIPITATION (inches)													TIFTON, GEORGIA LITTLE RIVER WATERSHED N	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.83	0.0	0.0	0.56	0.24	0.69	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.28	0.05	0.09	0.0	0.0	0.0	0.0		
3	0.23	0.0	0.0	0.0	0.0	0.01	0.17	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.01	0.23	0.0	0.22	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.87	0.02	0.21	0.0	0.0	0.0		
6	0.0	0.0	0.09	0.28	0.0	0.0	0.50	0.0	1.68	0.16	0.0	0.76		
7	0.33	0.0	0.01	0.0	2.88	0.0	0.0	0.67	1.93	0.04	0.0	0.27		
8	0.69	0.0	0.0	0.0	0.48	0.0	0.0	0.12	0.36	1.79	0.0	0.0		
9	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.05	0.07	0.01	0.0	0.91		
10	0.0	0.0	0.02	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.32	0.0	0.0	0.04	0.01	0.0	0.0	0.0	0.0	0.0	0.54		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.49		
13	0.03	0.0	0.49	0.0	0.25	0.0	0.0	0.20	0.0	0.0	0.0	0.01		
14	0.09	0.0	0.29	0.0	1.83	0.0	0.0	0.0	0.35	0.0	0.17	0.30		
15	0.0	0.0	0.40	0.03	0.76	0.0	0.0	0.0	0.0	0.0	0.04	0.04		
16	0.14	0.0	0.40	0.0	0.48	0.06	0.0	0.11	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.41	1.33	0.02	0.0	1.21	0.73	0.0		
18	0.0	0.23	0.0	0.0	0.0	0.03	0.07	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.20	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	1.59	0.27	0.31		
21	0.0	0.04	0.13	0.0	0.0	0.0	0.0	0.41	0.17	0.0	0.03	0.0		
22	0.0	0.45	0.04	0.0	1.44	0.02	0.37	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.06	0.0	1.67	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.01	0.03	0.0	0.05	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.13	0.49	0.0	0.0	0.0	0.0	0.53	0.0	0.97		
26	1.13	0.0	0.0	0.0	0.0	0.09	0.18	2.48	0.0	0.0	2.08	0.07		
27	0.53	0.0	0.38	0.0	0.0	0.51	0.0	0.03	0.05	0.0	1.68	0.0		
28	0.0	0.0	0.02	0.0	0.10	0.43	0.28	0.0	0.01	0.0	0.76	0.26		
29	0.0	0.0	0.03	0.35	0.0	0.84	0.01	0.0	0.0	0.0	0.25	0.0		
30	0.0	0.0	0.0	2.13	0.0	0.40	0.0	0.0	0.0	0.07	0.0	0.0		
31	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.41		
TOTAL	3.17	1.57	3.50	2.92	10.99	3.60	4.82	4.25	5.05	5.44	6.21	4.44		
STA AV	4.38	4.70	5.30	4.98	4.94	5.21	5.46	5.38	2.92	2.74	2.27	3.92		

NOTES: Values are weighted using Reciprocal Distance Squared Method from 9 recording gages. STA AV values are based on 7 yr (1970-76) record period.

In Cooperation with University of Georgia College of Agriculture Experiment Stations, Georgia Institute of Technology, and Middle South Georgia Soil Conservation District

NOTES: To convert runoff in CPS to IN/DAY, multiply by 0.00614712. STA AV values are based on 7 yr (1970-76) record period.

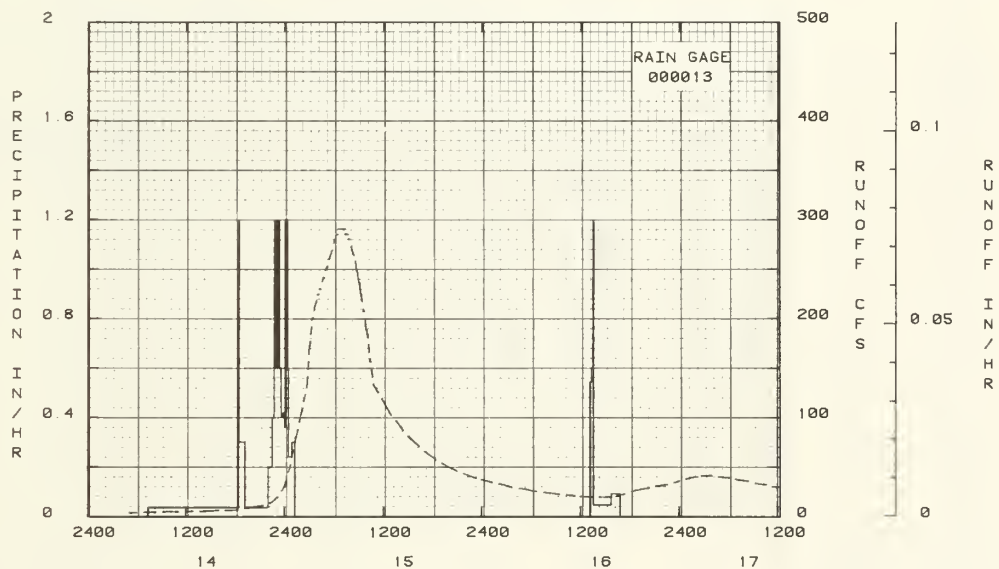
NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00025613.

1976		SELECTED RUNOFF EVENT			TIFTON, GEORGIA LITTLE RIVER WATERSHED #				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 12 - 20, 1976 (CONTINUED)									
				5-15			545	269.190	0.1423
							600	280.002	0.1482
							610	280.002	0.1602
							615	285.377	0.1662
							625	285.377	0.1784
							630	290.721	0.1845
							720	290.721	0.2466
							725	285.377	0.2527
							740	285.377	0.2710
							745	280.002	0.2770
							755	280.002	0.2890
							810	269.190	0.2948
							825	263.732	0.3004
							835	258.251	0.3059
							845	247.178	0.3167
							850	247.178	0.3220
							900	235.948	0.3323
							905	235.948	0.3374
							915	224.520	0.3472
							920	224.520	0.3520
							935	206.943	0.3658
							940	206.943	0.3702
							955	188.692	0.3829
							1000	188.692	0.3869
							1025	156.064	0.4053
							1030	156.064	0.4086
							1050	132.839	0.4210
							1125	125.126	0.4236
							1215	111.911	0.4334
							1300	102.225	0.4401
							1340	95.616	0.4422
							1425	86.795	0.4459
							1520	78.466	0.4476
							1625	70.623	0.4491
							1735	62.245	0.4505
							1825	57.319	0.4517
							1945	50.816	0.4528
							2100	45.603	0.4538
							2215	41.508	0.4546
							2320	38.393	0.4555
				5-16			2400	36.888	0.4563
							115	33.983	0.4570
							230	31.895	0.4590
							340	29.230	0.4597
							515	27.320	0.4620
							640	24.890	0.4625
							810	23.723	0.4651
							925	22.035	0.4655
							1115	20.950	0.4687
							1200	19.896	0.4691
							1330	19.381	0.4728
							1535	19.381	0.4799
							1725	23.153	0.4808
							1845	26.700	0.4814
							2020	29.230	0.4833
							2120	31.216	0.4839
							2235	32.582	0.4867
							2355	35.418	0.4882
							2400	36.149	0.4890
				5-17			110	38.393	0.4914
							205	40.716	0.4923
							245	41.508	0.4932
							400	41.508	0.5065
							455	39.933	0.5073
							600	39.158	0.5115
							705	36.888	0.5123
							825	35.418	0.5161
							925	33.278	0.5168
							1035	31.895	0.5189
							1140	29.884	0.5195
							1255	28.585	0.5225
							1345	26.700	0.5231
							1505	24.890	0.5237
							1630	23.153	0.5242
							1755	22.035	0.5265

NOTES: To convert runoff in CFS to IN/HA, multiply by 0.00025613.

1976 SELECTED RUNOFF EVENT			TIPTON, GEORGIA LITTLE RIVER WATERSHED N							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 12 - 20, 1976 (CONTINUED)										
				5-17			1905		20.419	0.5270
							2055		19.381	0.5299
							2140		18.375	0.5303
							2310		17.884	0.5337
							2400		16.924	0.5341
				5-18			200		16.456	0.5383
							310		15.542	0.5386
							525		15.097	0.5428
							700		14.228	0.5431
							945		13.806	0.5478
							1105		12.982	0.5481
							1335		12.581	0.5515
							1545		11.801	0.5539
							1710		11.051	0.5541
							2000		10.686	0.5580
							2155		9.978	0.5582
							2400		9.635	0.5590
				5-19			210		9.635	0.5644
							215		9.298	0.5646
							435		9.298	0.5702
							450		8.969	0.5703
							805		8.969	0.5778
							840		8.646	0.5780
							1120		8.646	0.5839
							1340		8.330	0.5884
							1515		7.720	0.5885
							1830		7.424	0.5919
							2040		6.854	0.5920
							2400		6.854	0.5979
				5-20			25		6.578	0.5980
							1230		6.578	0.6184
							1505		6.047	0.6185
							1930		5.791	0.6219
							1935		5.542	0.6221

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00025613.



EVENT OF MAY 12 - 20, 1976
TIPTON, GEORGIA LITTLE RIVER WATERSHED N

TIPTON, GEORGIA LITTLE RIVER WATERSHED O

LOCATION: Tift County, Georgia; approximately 2.5 miles northwest of Tifton on County Road S1179; Mill Creek, Little River watershed, Withlacoochee River Sub-basin, Suwannee River Basin. Lat. 31 deg. 29 min. 36 sec., long. 83 deg. 34 min. 04 sec.

AREA: 3936.00 acres 6.15 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														TIPTON, GEORGIA LITTLE RIVER WATERSHED O											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1976	P	3.61	1.58	3.68	1.96	11.69	4.44	3.52	3.86	4.88	5.70	6.02	4.24	55.18											
	Q	1.390	1.950	0.713	0.346	4.772	0.787	0.909	0.020	0.572	0.890	1.894	2.994	16.338											
STA AV	P	3.79	4.25	5.19	4.05	4.85	4.26	5.61	5.71	2.82	2.29	2.43	4.20	49.44											
	Q	1.843	2.789	2.697	2.584	1.439	0.547	0.618	1.078	0.554	0.282	0.351	0.934	15.720											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge Date Rate	1 Hour Date Vol.	2 Hours Date Vol.	6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.																
1976		5-15 0.079	5-15 0.079	5-15 0.155	5-15 0.418	5-15 0.672	5-23 0.901	5-22 1.190	5-22 1.979																
MAXIMUMS FOR PERIOD OF RECORD																									
		2- 2 0.155	2- 2 0.154	2- 2 0.304	2- 2 0.794	2- 2 1.249	4- 3 1.691	3-30 2.097	3-31 5.012																
		1973	1973	1973	1973	1973	1973	1973	1973																

NOTES: Watershed conditions: Residential, 1.6%; water, 2.9%; crops, 29.6%; pasture, 31.7%; roads, 1.3%; forest, 32.9%. For topographic and composition map showing location of rain gages, see pages 74.004-29 and 74.002-22, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975, USDA Misc. Pub. 1446. Precipitation records began January 1968. Runoff records began December 1, 1968. Monthly precipitation values are weighted using the Reciprocal Distance Squared Method from 9 recording gages. Runoff station averages include part-year records. Precipitation STA AV values are for record period beginning 1968. For long-time precipitation records, see National Weather Service records at Tifton, Georgia.

1976 DAILY PRECIPITATION (inches)														TIPTON, GEORGIA LITTLE RIVER WATERSHED O											
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
	1	0.0	0.89	0.0	0.0	0.68	0.50	0.93	0.0	0.01	0.0	0.0	0.0												
	2	0.0	0.01	0.0	0.0	0.0	0.27	0.01	0.05	0.0	0.0	0.0	0.0												
	3	0.21	0.0	0.0	0.0	0.0	0.01	0.19	0.03	0.0	0.0	0.0	0.0												
	4	0.0	0.0	0.0	0.0	0.01	0.05	0.14	0.0	0.25	0.0	0.0	0.0												
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.86	0.05	0.03	0.0	0.0	0.0												
	6	0.0	0.0	0.05	0.26	0.0	0.0	0.26	0.0	1.26	0.24	0.0	0.66												
	7	0.45	0.0	0.01	0.0	2.14	0.0	0.0	0.56	2.23	0.02	0.0	0.26												
	8	0.97	0.0	0.01	0.0	1.00	0.0	0.0	0.10	0.19	1.64	0.0	0.0												
	9	0.0	0.0	0.13	0.0	0.01	0.0	0.0	0.02	0.01	0.02	0.0	0.01												
	10	0.0	0.0	0.05	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0												
	11	0.0	0.05	0.0	0.0	0.01	0.01	0.0	0.02	0.0	0.0	0.0	0.50												
	12	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.54												
	13	0.0	0.0	0.59	0.02	0.47	0.0	0.0	0.37	0.0	0.0	0.0	0.01												
	14	0.08	0.0	0.28	0.0	1.72	0.0	0.0	0.04	0.49	0.01	0.20	0.31												
	15	0.0	0.0	0.28	0.05	0.99	0.0	0.0	0.0	0.0	0.0	0.02	0.04												
	16	0.14	0.0	0.46	0.0	0.61	0.10	0.0	0.19	0.0	0.0	0.0	0.0												
	17	0.01	0.0	0.0	0.0	0.0	0.94	0.22	0.11	0.0	1.80	0.70	0.0												
	18	0.0	0.30	0.0	0.0	0.0	0.01	0.07	0.0	0.0	0.0	0.0	0.0												
	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0												
	20	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	1.33	0.30	0.21												
	21	0.0	0.01	0.10	0.0	0.0	0.04	0.0	0.03	0.28	0.0	0.0	0.0												
	22	0.0	0.32	0.01	0.0	1.41	0.13	0.45	0.0	0.0	0.0	0.0	0.0												
	23	0.0	0.0	0.06	0.0	1.78	0.0	0.07	0.02	0.0	0.0	0.0	0.0												
	24	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	25	0.0	0.0	0.0	0.03	0.72	0.01	0.0	0.0	0.0	0.62	0.0	0.99												
	26	1.21	0.0	0.0	0.0	0.0	0.0	0.12	2.24	0.01	0.0	2.14	0.02												
	27	0.53	0.0	0.36	0.0	0.0	0.33	0.01	0.0	0.10	0.0	1.33	0.0												
	28	0.0	0.0	0.05	0.0	0.11	0.42	0.03	0.0	0.02	0.0	0.80	0.29												
	29	0.0	0.0	0.0	0.35	0.0	0.90	0.08	0.0	0.0	0.0	0.31	0.0												
	30	0.0	0.0	0.0	1.25	0.0	0.41	0.01	0.0	0.0	0.02	0.0	0.0												
	31	0.0	0.0	1.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40												
TOTAL		3.61	1.58	3.68	1.96	11.69	4.44	3.52	3.86	4.88	5.70	6.02	4.24												
STA AV		3.79	4.25	5.19	4.05	4.85	4.26	5.61	5.71	2.82	2.29	2.43	4.20												

NOTES: Values are weighted using Reciprocal Distance Squared Method from 9 recording gages. STA AV values are based on 9 yr (1968-76) record period.

In Cooperation with University of Georgia College of Agriculture Experiment Stations, Georgia
Institute of Technology, and Middle South Georgia Soil Conservation District

1976 MEAN DAILY DISCHARGE (cfs) TIFTON, GEORGIA LITTLE RIVER WATERSHED 0												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	5.65	14.89	2.52	24.10	12.50	7.90	23.93	0.0	0.0	0.24	3.20	14.99E
2	4.89	22.12	2.35	7.12	4.64	17.19	28.83	0.0	0.0	0.11	2.85	12.32E
3	4.12	10.34	2.23	4.00	2.11	10.33	8.14	0.0	0.0	0.07	2.47	11.47E
4	4.80	8.26	2.23	2.96	0.99	7.21	5.60	0.0	0.99	0.03E	2.35	10.39
5	3.57	6.71	2.33	2.63	0.80	6.00	15.58	0.0	1.61	0.00E	2.13	9.85
6	3.02	6.38	2.23	2.31	0.87	4.73	31.66	0.0	4.04	0.0	2.06	12.96
7	2.93	6.21	2.34	3.33	15.50	3.59	14.41	0.0	38.36	0.0	1.89	32.08
8	28.40	5.24	2.22	2.42	53.07	2.49	7.49	0.0	17.69	0.83	1.83	23.07
9	12.40	4.38	2.69	1.60	52.08	2.20	4.78	0.0	6.75	11.89	1.80	13.23
10	7.27	4.50	2.55	1.09	14.10	1.71	3.17	0.0	4.13	4.02	2.02	10.71
11	5.93	4.36	2.14	1.03	8.50	1.31	2.26	0.0	2.24	1.97	1.94	16.80
12	5.33	4.47	1.87	0.86	6.22	1.19	1.55	0.0	1.19	1.11	1.94	21.20
13	4.51	4.22	5.30	0.58	8.19	0.92	1.16	0.0	0.73	0.83	1.89	32.68
14	5.05	4.01	6.64	0.51	16.80	0.60	0.81	0.0	1.38	0.60	1.99	26.60E
15	4.65	3.84	8.23	0.42	144.57	0.37	0.40	0.0	2.99	0.46	3.13	24.45E
16	4.71	3.77	12.68	0.30	34.62	0.33	0.18	0.0	2.52	0.33	3.23	17.04E
17	5.95	3.36	9.68	0.19	34.45	2.45	0.07	0.0	1.68	15.60	6.46	13.22E
18	4.41	4.39	4.68	0.13	13.11	11.98	0.04	0.0	0.84	12.59	10.44	10.86
19	3.91	8.21	3.33	0.07	8.98	4.49	0.06	0.0	0.80	3.72	5.55	9.57
20	3.69	5.33	2.69	0.04	7.62	3.81	0.02	0.0	0.72	24.62	8.78	10.48
21	3.53	4.38	2.89	0.04	5.92	4.48	0.0	0.0	1.27	12.53	7.94	12.55
22	3.43	6.13	2.94	0.02	17.89	3.02	0.0	0.0	1.42	5.19	4.66	9.46
23	3.18	5.36	2.90	0.01	142.47	2.11	0.0	0.0	0.88	3.69	3.30	9.11
24	3.19	4.10	2.33	0.00	53.21	1.45	0.0	0.0	0.44	3.13	2.88	8.76
25	3.18	3.90	2.03	0.00	32.32	0.96	0.0	0.0	0.33	5.92	2.78	9.98
26	7.58	3.54	1.88	0.00	42.46	0.58	0.0	0.0	0.26	12.26	16.38	39.14
27	33.25	3.70	3.03	0.00	15.86	0.46	0.0	2.25	0.27	9.70	53.33	16.79
28	18.57	3.07	4.48	0.0	13.67	1.76	0.0	0.82	0.37	4.64	75.40	12.34
29	10.02	2.59	3.41	0.0	10.55	4.75	0.0	0.19	0.43	3.76	51.39	14.80
30	6.00		2.40	1.51	8.35	19.82	0.0	0.02	0.35	3.50	27.35E	10.71
31	6.14		8.44		6.85		0.0	0.0		3.69		17.63
MEAN	7.414	5.990	3.803	1.909	25.462	4.340	4.849	0.106	3.155	4.749	10.444	15.973
INCHES	1.390	1.150	0.713	0.346	4.772	0.787	0.909	0.020	0.572	0.890	1.694	2.994
STA AV	1.848	2.789	2.597	2.584	1.439	0.547	0.618	1.078	0.554	0.282	0.351	0.934

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.00604717. STA AV values are based on 9 yr (1968-76) record period.

1976 SELECTED RUNOFF EVENT TIFTON, GEORGIA LITTLE RIVER WATERSHED 0											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JANUARY 24 - 31, 1976											
RG 000008			RG 000006								
1-26	0.0		1-26	739	0.0	0.0	1-24	2400	3.194	0.0	
1-24		0.012		1040	0.0331	0.10	1-25	1230	3.194	0.0101	
				1340	0.0333	0.20		1955	3.194	0.0149	
				1345	3.6000	0.50		2020	3.021	0.0150	
				1400	0.4000	0.60		2400	3.021	0.0177	
WATERSHED CONDITIONS:				1420	0.3000	0.70	1-26	205	3.021	0.0179	
Residential, 1.6%; crops,				1455	0.1714	0.80		605	3.021	0.0206	
29.6%; pasture, 31.7%;				1610	0.0800	0.90		800	3.194	0.0209	
water, 2.9%; roads, 1.3%;				1840	0.0400	1.00		1025	3.194	0.0227	
forest, 32.9%.				2035	0.0522	1.10		1040	3.557	0.0227	
				2115	0.1500	1.20		1305	3.557	0.0249	
				2330	0.0444	1.30		1340	3.557	0.0250	
				2400	0.0200	1.31		1415	5.658	0.0253	
			1-27	450	0.0186	1.40		1515	7.150	0.0255	
				540	0.1200	1.50		1620	11.974	0.0257	
				625	0.1333	1.60		1715	14.470	0.0260	
				845	0.0429	1.70		1745	15.227	0.0263	
				1035	0.0545	1.80		1900	15.227	0.0311	
								2000	14.470	0.0314	
								2105	14.846	0.0330	
								2215	16.002	0.0340	
								2340	19.295	0.0344	
								2400	20.167	0.0348	
							1-27	35	21.966	0.0353	
								135	22.895	0.0372	
								225	24.323	0.0377	
								330	24.760	0.0414	
								435	25.648	0.0435	
								520	27.907	0.0441	
								605	29.289	0.0447	

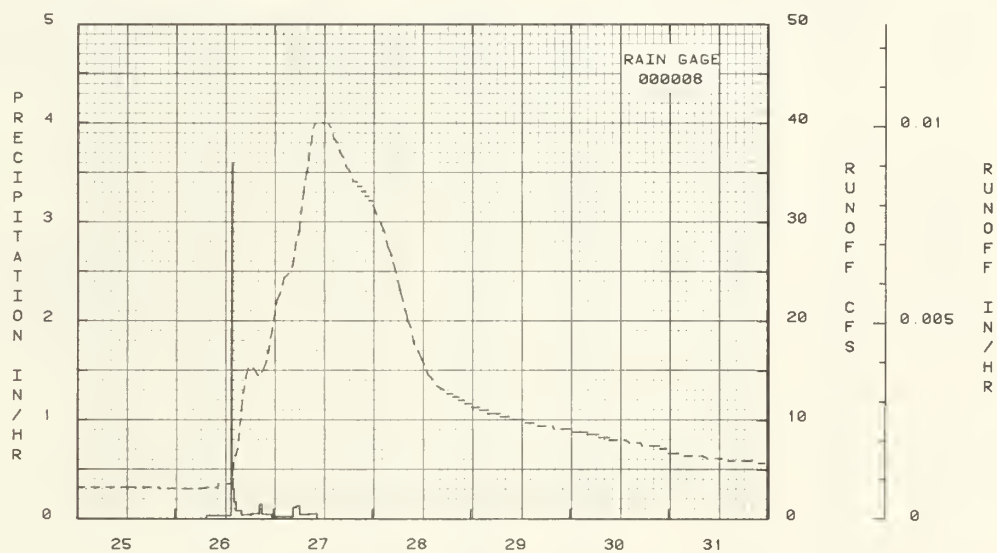
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000251965.

1976			TIFTON, GEORGIA LITTLE RIVER WATERSHED 0									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JANUARY 24 - 31, 1976 (CONTINUED)												
							1-27	715	33.556	0.0454		
								800	35.510	0.0469		
								855	37.999	0.0477		
								925	39.518	0.0485		
								950	40.028	0.0494		
								1115	40.028	0.0636		
								1200	40.028	0.0653		
								1255	40.028	0.0729		
								1340	39.518	0.0779		
								1420	38.503	0.0787		
								1515	37.999	0.0819		
								1600	36.997	0.0826		
								1650	36.499	0.0865		
								1725	35.510	0.0872		
								1825	35.018	0.0909		
								1910	34.042	0.0916		
								2005	34.042	0.0995		
								2010	33.556	0.1002		
								2110	33.556	0.1086		
								2115	33.074	0.1093		
								2205	33.074	0.1163		
								2210	32.593	0.1170		
								2300	32.593	0.1238		
								2305	32.114	0.1245		
								2350	32.114	0.1306		
								2400	31.638	0.1312		
							1-28	50	30.692	0.1319		
								200	29.754	0.1344		
								255	28.826	0.1368		
								340	27.451	0.1374		
								435	26.545	0.1390		
								540	24.760	0.1396		
								630	23.366	0.1401		
								720	21.966	0.1405		
								810	20.609	0.1410		
								915	19.295	0.1422		
								1010	17.611	0.1426		
								1115	16.797	0.1436		
								1230	15.612	0.1446		
								1335	14.470	0.1449		
								1445	14.099	0.1461		
								1550	13.372	0.1464		
								1720	13.015	0.1480		
								1815	12.663	0.1483		
								1930	12.663	0.1523		
								1935	12.316	0.1525		
								2050	12.316	0.1564		
								2055	11.974	0.1567		
								2225	11.974	0.1612		
								2230	11.636	0.1614		
								2400	11.636	0.1658		
							1-29	10	11.304	0.1661		
								200	11.304	0.1713		
								205	10.976	0.1715		
								355	10.976	0.1766		
								400	10.653	0.1768		
								705	10.653	0.1851		
								710	10.334	0.1853		
								915	10.334	0.1907		
								920	10.021	0.1909		
								1240	10.021	0.1994		
								1310	9.712	0.1996		
								1510	9.712	0.2045		
								1610	9.408	0.2047		
								1955	9.408	0.2136		
								2000	9.109	0.2137		
								2400	9.109	0.2229		
							1-30	50	8.815	0.2231		
								410	8.815	0.2305		
								415	8.525	0.2307		
								700	8.525	0.2366		
								705	8.240	0.2368		
								935	8.240	0.2420		
								940	7.961	0.2421		
								1345	7.961	0.2503		

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000251965.

1976	SELECTED RUNOFF EVENT			TIPTON, GEORGIA LITTLE RIVER WATERSHED 0						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JANUARY 24 - 31, 1976 (CONTINUED)										
							1-30	1430	7.685	0.2505
								1720	7.685	0.2560
								1740	7.415	0.2561
								2155	7.415	0.2641
								2200	7.150	0.2642
								2335	7.150	0.2671
								2400	6.633	0.2672
							1-31	230	6.633	0.2706
								350	6.382	0.2707
								805	6.382	0.2767
								930	6.136	0.2771
								1135	6.136	0.2796
								1300	6.136	0.2815
								1425	5.894	0.2816
								1600	5.894	0.2830
								1805	5.894	0.2858
								2015	5.894	0.2888
								2150	5.658	0.2896
								2320	5.658	0.2901
								2400	5.894	0.2904

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000251965.



EVENT OF JANUARY 24 - 31, 1976
TIPTON, GEORGIA LITTLE RIVER WATERSHED 0

TIPTON, GEORGIA LITTLE RIVER WATERSHED F

LOCATION: Turner County, Georgia; approximately 7 miles south of Ashburn on County Road S1989; Little River, Withlacoochee River Sub-basin, Suwanee River Basin. Lat. 31 deg. 36 min. 17 sec., Long. 83 deg. 37 min. 53 sec.

AREA: 28378.00 acres 44.34 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													TIPTON, GEORGIA LITTLE RIVER WATERSHED F												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1976	P	4.25	2.39	4.12	2.95	8.78	2.54	5.48	6.50	4.06	4.63	5.98	4.30	55.73											
	Q	1.363	1.279	1.215	0.369	3.764	0.417	0.734	0.718	0.989	0.863	1.896	3.583	17.209											
STA AV	P	3.87	4.83	6.21	3.91	5.06	4.68	5.99	5.77	2.71	2.04	2.30	4.09	51.46											
	Q	1.491	2.620	2.721	2.550	1.409	0.875	0.785	1.113	0.525	0.176	0.278	0.923	15.465											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge				1 Hour				2 Hours				Maximum Volume for Selected Time Interval								2 Days			
		Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
		Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.
1976		5-16	0.049	5-16	0.049	5-16	0.097	5-16	0.286	5-15	0.539	5-15	0.891	5-15	1.201	11-26	1.931								
MAXIMUMS FOR PERIOD OF RECORD																									
		4-15	0.007	4-15	0.067	4-15	0.135	4-15	0.400	4-15	0.773	4-15	1.352	4-14	1.972	4-10	3.530								
		1975	1975	1975	1975	1975	1975	1975	1975	1975	1975	1975	1975	1975	1975	1975	1975								

NOTES: Watershed conditions: Residential, 1.9%; forest, 43.7%; commercial, 1.1%; water, 1.8%; crops, 32.3%; wetland, 1.4%; pasture, 17.1%; roads, 0.8%. For topographic and composition map showing location of rain gages see pages 74.005-33 and 74.002-22, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975, USDA Misc. Pub. 1446. Precipitation records began January 1968. Ennoff records began January 1, 1969. Monthly precipitation values are weighted using the Reciprocal Distance Squared Method from 17 recording gages. Precipitation STA AV values are for record period beginning 1969. For long-time precipitation records, see National Weather Service records at Tifton, Georgia.

1976 DAILY PRECIPITATION (inches)														TIPTON, GEORGIA LITTLE RIVER WATERSHED P													
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
	1	0.0	0.61	0.0	0.0	0.32	0.01	0.50	0.0	0.01	0.0	0.0	0.0														
	2	0.0	0.0	0.0	0.0	0.0	0.16	0.02	0.51	0.0	0.0	0.0	0.0														
	3	0.16	0.0	0.0	0.0	0.0	0.16	0.03	0.0	0.0	0.0	0.0	0.0														
	4	0.0	0.0	0.0	0.0	0.0	0.01	0.16	0.0	0.13	0.0	0.0	0.0														
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.0	0.79	0.0	0.0	0.0														
	6	0.0	0.0	0.29	0.15	0.0	0.0	1.33	0.0	1.06	0.26	0.0	0.69														
	7	0.62	0.0	0.0	0.01	0.89	0.0	0.01	0.44	1.17	0.0	0.0	0.42														
	8	0.45	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.20	1.67	0.0	0.0														
	9	0.01	0.0	0.19	0.0	0.0	0.0	0.0	1.08	0.01	0.01	0.0	0.0														
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0														
	11	0.06	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.52														
	12	0.0	0.0	0.02	0.0	0.02	0.0	0.0	0.01	0.0	0.0	0.0	0.33														
	13	0.0	0.0	0.47	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.04														
	14	0.14	0.0	0.85	0.02	2.38	0.0	0.0	0.0	0.16	0.0	0.20	0.21														
	15	0.0	0.0	0.44	0.0	1.60	0.0	0.0	0.0	0.02	0.0	0.07	0.08														
	16	0.18	0.0	0.35	0.0	0.40	0.0	0.0	0.31	0.0	0.0	0.0	0.0														
	17	0.0	0.0	0.0	0.0	0.02	0.23	1.32	0.09	0.0	0.59	0.0	0.0														
	18	0.0	0.32	0.0	0.0	0.02	0.0	0.06	0.0	0.0	0.0	0.0	0.0														
	19	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.13	0.10	0.0														
	20	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	1.61	0.27	0.33														
	21	0.0	0.10	0.20	0.0	0.0	0.0	0.0	0.08	0.0	0.01	0.0	0.0														
	22	0.0	1.06	0.11	0.0	1.61	0.0	0.02	0.0	0.0	0.0	0.0	0.0														
	23	0.01	0.0	0.01	0.0	1.00	0.0	0.0	0.45	0.0	0.0	0.0	0.0														
	24	0.0	0.0	0.0	0.0	0.04	0.03	0.0	0.0	0.0	0.0	0.0	0.0														
	25	0.0	0.0	0.0	0.33	0.02	0.0	0.0	0.0	0.07	0.32	0.0	1.01														
	26	1.71	0.0	0.0	0.0	0.0	0.10	1.70	3.58	0.07	0.0	2.25	0.01														
	27	3.69	0.0	0.47	0.0	0.05	0.41	0.01	0.03	0.11	0.0	1.48	0.0														
	28	0.0	0.0	0.03	0.0	0.10	0.51	0.0	0.0	0.07	0.0	0.67	0.28														
	29	0.0	0.0	0.0	0.31	0.0	0.14	0.07	0.0	0.11	0.0	0.12	0.0														
	30	0.0	0.0	0.0	2.06	0.0	0.32	0.07	0.0	0.0	0.09	0.0	0.0														
	31	0.02		0.67		0.0		0.0	0.0		0.0		0.38														
TOTAL		4.25	2.09	4.12	2.95	8.78	2.54	5.48	6.50	4.06	4.68	5.98	4.30														
STA AV		3.87	4.83	6.21	3.91	5.06	4.68	5.99	5.77	2.71	2.04	2.30	4.09														

NOTES: Values are weighted using Reciprocal Distance Squared Method from 17 recording gages. STA AV values are based on 8 yr (1969-76) record period.

In Cooperation with University of Georgia College of Agriculture Experiment Stations, Georgia Institute of Technology, and Middle South Georgia Soil Conservation District

1976 MEAN DAILY DISCHARGE (cfs) TIPTON, GEORGIA LITTLE RIVER WATERSHED F												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	51.82	71.93	27.36	92.01	115.77	46.05	24.26	3.26	7.19	5.08	24.97	225.98
2	42.17	94.21	23.30	66.58	101.86	42.34	38.09	2.74	5.95	3.67	19.74	152.08
3	33.44	102.65	21.66	54.63	74.73	46.47	37.49	1.81	4.50	2.14	17.00	123.15
4	25.34	82.99	21.21	29.70	27.02	78.60	27.01	3.35	2.95	1.30	14.54	109.08
5	21.56	65.11	20.65	20.32	12.84	45.31	27.32	3.47	3.33	0.83	12.83	99.61
6	16.60	55.33	21.68	17.37	8.83	32.33	66.55	2.65	59.36	0.60	10.83	95.56
7	17.50	51.34	22.09	21.86	17.50	22.96	96.25	1.14	204.05	0.83	10.58	159.69
8	59.89	46.14	30.55	22.12	69.87	15.99	94.26	0.67	273.10	3.35	10.84	231.37
9	86.82	41.98	34.73	16.37	55.43	11.64	43.46	2.14	221.99	100.88	8.91	185.64
10	81.99	40.14	35.29	12.11	35.08	8.12	17.85	44.35	126.54	103.26	8.00	132.84
11	60.47	38.52	26.72	12.16	23.12	5.69	13.37	73.91	57.51	40.60	8.21	125.51
12	41.40	37.26	21.02	8.39	20.99	4.35	8.30	12.60	25.79	17.51	8.53	159.16
13	34.95	35.30	30.66	7.06	27.74	3.34	4.50	6.13	19.56	10.96	8.84	198.86
14	35.70	31.35	48.67	8.36	21.72	1.90	2.46	3.28	17.58	8.48	8.76	179.86
15	38.46	29.39	70.62	9.90	373.58	1.10	1.30	1.90	24.24	6.75	11.71	166.63
16	34.02	28.39	133.57	7.69	993.41	0.74	0.65	1.12	23.65	4.81	17.70	153.51
17	32.44	27.55	146.25	4.93	251.15	0.58	0.33	0.74	18.23	8.72	23.66	134.66
18	30.32	26.38	110.21	4.50	237.39	0.55	11.44	0.43	14.03	20.15	44.93	109.38
19	26.37	40.57	69.34	3.66	132.31	2.25	62.38	0.24	10.53	17.65	48.79	91.04
20	22.91	47.02	43.57	2.52	79.19	7.04	16.24	0.20	9.91	75.94	44.59	87.90
21	21.60	34.18	38.79	1.72	58.26	11.10	7.71	0.11	6.27	150.82	45.04	101.17
22	20.66	56.41	44.79	1.23	72.59	16.92	4.51	0.05	5.45	115.15	37.47	107.60
23	16.90	127.91	50.22	1.14	296.25	9.05	3.10	0.04	5.44	67.35	25.14	90.75
24	17.77	111.90	47.65	1.05	459.32	3.79	1.78	0.23	3.75	38.80	18.61	77.74
25	18.76	55.63	43.48	0.80	261.73	1.67	0.73	0.34	2.75	31.00	15.71	73.06
26	28.31	39.49	32.53	0.49	155.61	1.88	24.10	4.96	2.63	41.54	34.54	163.32
27	130.13	42.32	34.32	0.26	106.54	2.81	134.59	357.08	3.62	42.16	245.57	219.56
28	272.91	32.38	55.86	0.19	93.38	3.81	79.43	229.63	4.97	34.48	516.21	158.04
29	178.00	27.83	58.49	0.15	86.34	28.50	15.16	64.26	4.49	26.31	564.39	127.66
30	116.33		44.98	10.21	80.10	39.69	6.17	21.88	5.31	22.78	374.00	114.66
31	78.98		29.36		59.07		4.19	10.85		24.57		118.74
MEAN	53.18	52.59	46.74	14.65	144.76	16.56	28.22	27.60	39.30	33.18	75.36	137.82
INCHES	1.383	1.279	1.215	0.365	3.764	0.417	0.734	0.718	0.989	0.863	1.696	3.583
STA AV	1.491	2.620	2.721	2.550	1.409	0.875	0.785	1.113	0.525	0.176	0.276	0.923

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.000838736. STA AV values are based on 8 yr (1969-76) record period.

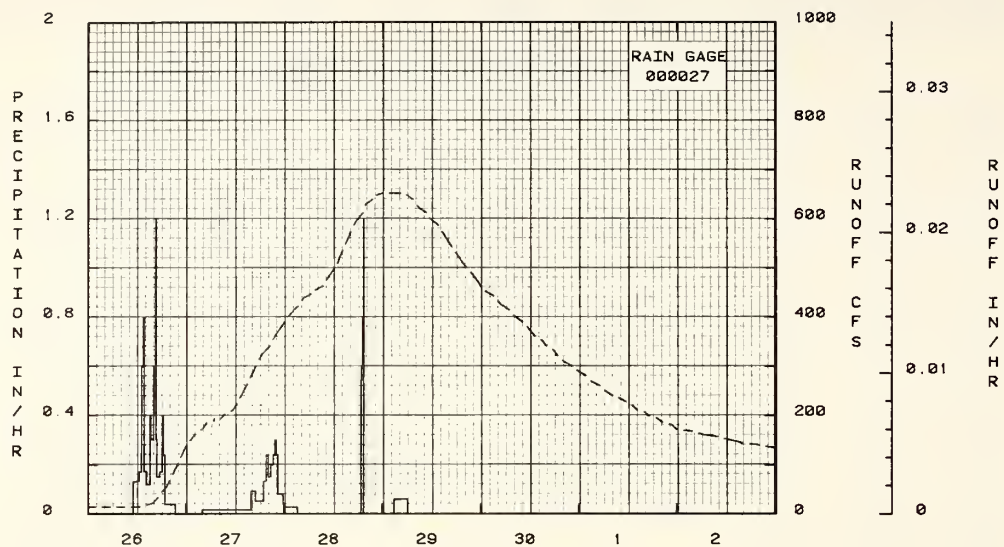
1976 SELECTED RUNOFF EVENT TIPTON, GEORGIA LITTLE RIVER WATERSHED F											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF NOVEMBER 25 - DECEMBER 3, 1976											
RG 000027 RG 000027											
11-26	0.0		11-26	1104	0.0	0.0	11-25	2400	14.861	0.0	
11-25		0.013		1150	0.1304	0.10	11-26	1243	14.861	0.0009	
				1235	0.1333	0.20		1555	22.221	0.0009	
				1310	0.1714	0.30		1910	54.379	0.0011	
				1320	0.6000	0.40		2115	88.513	0.0013	
WATERSHED CONDITIONS:											
Residential, 1.8%; forest, 43.7%; commercial, 1.1%; water, 1.8%; crops, 32.3%; wetland, 1.4%; pasture, 17.1%; roads, 0.8%.											
				1330	0.5999	0.50		2400	137.585	0.0017	
				1345	0.6000	0.70	11-27	215	162.887	0.0022	
				1420	0.1714	0.80		355	171.921	0.0042	
				1510	0.1200	0.90		505	165.084	0.0047	
				1525	0.4000	1.00		650	169.408	0.0114	
				1545	0.3000	1.10		655	193.706	0.0119	
				1605	0.3000	1.20		825	193.706	0.0221	
				1615	0.5999	1.30		930	202.228	0.0226	
				1630	0.4000	1.40		1125	210.666	0.0263	
				1635	1.1999	1.50		1325	239.703	0.0270	
				1655	0.3000	1.60		1500	264.194	0.0278	
				1735	0.1500	1.70		1705	300.594	0.0286	
				1810	0.1714	1.80		1835	324.791	0.0296	
				1825	0.4000	1.90		2025	340.927	0.0336	
				1850	0.2400	2.00		2200	365.167	0.0346	
				2130	0.0375	2.10		2400	389.542	0.0369	
			11-27	355	0.0	2.10	11-28	130	405.851	0.0381	
				1000	0.0166	2.20		320	422.220	0.0418	
				1600	0.0167	2.30		445	438.663	0.0430	
				1705	0.0923	2.40		630	446.912	0.0534	
				1900	0.0522	2.50		735	455.179	0.0546	
				1945	0.1333	2.60		925	463.465	0.0629	
				2010	0.2400	2.70		1100	484.281	0.0643	
				2050	0.1500	2.80		1300	509.437	0.0672	
				2120	0.2000	2.90		1410	534.800	0.0688	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000839473.

1976	SELECTED RUNOFF EVENT			TIPTON, GEORGIA LITTLE RIVER WATERSHED F						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF NOVEMBER 25 - DECEMBER 9, 1976 (CONTINUED)										
			11-27	2145	0.2400	3.00	11-28	1610	573.242	0.0704
				2205	0.3000	3.10		1730	594.814	0.0722
				2230	0.2490	3.20		1915	612.186	0.0739
				2345	0.0600	3.30		1950	629.656	0.0758
				2400	0.0400	3.31		2125	638.429	0.0869
			11-28	315	0.0277	3.40		2230	647.229	0.0888
				1844	0.0	3.40		2400	651.641	0.1002
				1855	0.5454	3.50	11-29	415	651.641	0.1970
				1905	0.6000	3.60		550	647.229	0.2234
				1920	0.8000	3.60		725	638.429	0.2345
				1925	1.2001	3.90		855	620.907	0.2363
			11-29	249	0.0	3.90		1040	612.186	0.2470
				430	0.0594	4.00		1140	559.147	0.2488
				610	0.0600	4.10		1340	566.167	0.2573
								1510	564.656	0.2590
								1655	543.301	0.2606
								1835	522.094	0.2621
								2020	501.031	0.2636
								2210	464.281	0.2692
								2400	463.469	0.2706
							11-30	120	451.042	0.2719
								305	442.783	0.2796
								450	426.323	0.2809
								655	414.026	0.2869
								510	401.768	0.2881
								1010	389.542	0.2926
								1205	373.292	0.2970
								1315	361.137	0.2980
								1455	353.049	0.3042
								1500	340.927	0.3052
								1740	332.856	0.3110
								1945	320.759	0.3120
								2025	308.662	0.3129
								2210	300.594	0.3190
								2400	288.488	0.3297
							12- 1	140	280.404	0.3264
								300	268.251	0.3272
								505	250.127	0.3332
								649	247.697	0.3340
								815	239.703	0.3347
								945	235.592	0.3395
								1135	227.337	0.3441
								1310	219.032	0.3492
								1420	210.666	0.3496
								1610	205.456	0.3552
								1715	197.975	0.3558
								1920	193.706	0.3626
								2030	185.084	0.3631
								2250	180.729	0.3705
								2400	171.921	0.3710
							12- 2	350	167.366	0.3783
								630	160.675	0.3788
								955	156.310	0.3847
								1310	149.902	0.3882
								1605	143.661	0.3886
								2005	139.592	0.3955
								2400	133.625	0.3998
							12- 3	205	125.739	0.4002
								515	127.820	0.4069
								715	124.040	0.4071
								935	122.176	0.4076
								1315	122.176	0.4233
								1415	120.330	0.4236
								1505	120.330	0.4435
								1510	118.502	0.4443
								2255	118.502	0.4598
								2400	116.691	0.4639
							12- 4	405	114.857	0.4739
								630	111.362	0.4743
								1115	109.620	0.4829
								1435	106.186	0.4832
								1820	106.186	0.4956
								1825	104.497	0.4959
								2210	104.497	0.5096
								2400	102.824	0.5150

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0035349473.

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0000349473.



EVENT OF NOVEMBER 25 - DECEMBER 9, 1976
TIPTON, GEORGIA LITTLE RIVER WATERSHED F

TIFTON, GEORGIA LITTLE RIVER WATERSHED I

LOCATION: Turner County, Georgia; approximately 3 miles west of Ashburn on State Highway 112; Little River, Withlacoochee River Sub-basin, Suwanee River Basin. Lat. 31 deg. 40 min. 28 sec., long. 83 deg. 41 min. 26 sec.

AREA: 12333.00 acres 19.27 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)								TIFTON, GEORGIA LITTLE RIVER WATERSHED I									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	4.62	1.99	4.40	2.80	10.03	3.05	4.69	6.13	4.19	4.59	6.48	4.42	57.39			
	Q	1.543	1.402	1.581	0.406	4.976	0.654	0.772	0.616	1.091	0.727	2.688	3.700	20.156			
STA AV	P	3.83	4.59	6.00	3.51	5.06	4.45	6.14	5.68	2.29	1.76	2.53	4.29	50.13			
	Q	1.538	2.666	3.035	2.400	1.545	0.928	0.771	1.310	0.481	0.132	0.345	0.877	16.028			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		5-15	0.087	5-15	0.086	5-15	0.171	5-15	0.496	5-15	0.911	5-15	1.456	5-15	1.889	5-15	2.325
MAXIMUMS FOR PERIOD OF RECORD																	
		4-15	0.088	4-15	0.087	4-15	0.174	4-14	0.514	4-14	0.971	4-14	1.604	4-14	2.131	5-28	4.143
		1975		1975		1975		1975		1975		1975		1975		1970	

NOTES: Watershed conditions: Residential, 0.1%; water, 1.0%; crops, 27.1%; wetland, 0.3%; pasture, 16%; roads, 0.9%; forest, 54.6%. For topographic and composition map showing location of rain gages see pages 74.006-30 and 74.002-22, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975, USDA Misc. Pub. 1446. Precipitation records began January 1968. Runoff records began January 1, 1968. Monthly precipitation values are weighted using the Reciprocal Distance Squared Method from 11 recording gages. For long-time precipitation records, see National Weather Service records at Tifton, Georgia.

1976	DAILY PRECIPITATION (inches)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.50	0.0	0.0	0.25	0.01	0.46	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.22	0.02	0.79	0.0	0.0	0.0	0.0
3	0.22	0.0	0.0	0.0	0.0	0.03	0.04	0.01	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.14	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.99	0.0	0.0	0.0
6	0.0	0.0	0.44	0.16	0.0	0.0	1.08	0.0	1.12	0.34	0.0	0.57
7	0.97	0.0	0.0	0.0	0.79	0.0	0.01	0.73	1.39	0.0	0.0	0.46
8	0.38	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.01	1.27	0.0	0.0
9	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.84	0.01	0.01	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.01	0.0	0.01
11	0.05	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.52
12	0.01	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.37
13	0.01	0.0	0.36	0.08	0.06	0.0	0.0	0.0	0.0	0.01	0.0	0.06
14	0.14	0.0	1.07	0.01	2.73	0.0	0.0	0.0	0.12	0.0	0.21	0.21
15	0.0	0.0	0.52	0.0	2.31	0.0	0.0	0.0	0.01	0.0	0.08	0.10
16	0.19	0.0	0.37	0.0	0.67	0.0	0.0	0.34	0.0	0.0	0.01	0.0
17	0.0	0.0	0.0	0.0	0.05	0.35	1.36	0.11	0.0	0.67	0.61	0.0
18	0.0	0.31	0.0	0.0	0.03	0.01	0.08	0.0	0.0	0.0	0.0	0.0
19	0.0	0.01	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.14	0.09	0.0
20	0.0	0.0	0.0	0.0	0.01	0.23	0.0	0.0	0.0	1.70	0.25	0.33
21	0.0	0.12	0.26	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.01	0.0
22	0.0	0.94	0.13	0.0	1.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.11	0.01	0.0	0.86	0.0	0.0	0.34	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.05	0.07	0.0	0.01	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.01	0.02	0.34	0.0	1.05
26	1.78	0.0	0.0	0.0	0.0	0.10	1.03	2.90	0.02	0.0	2.31	0.0
27	0.83	0.0	0.46	0.0	0.11	0.66	0.02	0.05	0.15	0.0	1.59	0.0
28	0.0	0.0	0.02	0.0	0.10	0.29	0.0	0.0	0.02	0.0	1.22	0.29
29	0.0	0.0	0.0	0.22	0.0	0.18	0.11	0.0	0.09	0.0	0.10	0.0
30	0.0	0.0	0.0	1.90	0.0	0.49	0.15	0.0	0.0	0.10	0.0	0.0
31	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35
TOTAL	4.62	1.99	4.40	2.80	10.03	3.05	4.69	6.13	4.19	4.59	6.48	4.42
STA AV	3.83	4.59	6.00	3.51	5.06	4.45	6.14	5.68	2.29	1.76	2.53	4.29

NOTES: Values are weighted using Reciprocal Distance Squared Method from 11 recording gages. STA AV values are based on 9 yr (1968-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) TIFTON, GEORGIA LITTLE RIVER WATERSHED I												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	21.38	36.27	12.21	36.84	48.50	24.23	22.97	2.22	3.03	1.76	9.27	74.52
2	20.61	53.56	11.22	38.20	49.82	25.60	36.27	1.11	2.11	0.96	7.70	59.30
3	12.21	44.69	10.75	17.98	17.65	30.53	27.97	2.06	1.41	0.51	6.86	52.08
4	11.04	33.45	10.63	12.70	7.62	24.64	9.88	2.98	1.05	0.20	6.23	47.92
5	10.31	27.93	13.69	10.58	4.54	20.55	9.23	2.70	18.45	0.06	5.33	44.04
6	9.50	25.02	10.30	9.96	3.07	16.80	35.29	1.03	45.34	0.04	6.97	47.33
7	8.52	24.31	17.80	13.39	12.09	12.25	57.91	0.74	131.15	0.25	5.63	102.80
8	33.55	22.98	21.03E	11.15	24.69	9.17	31.69	5.50	141.68	5.20	4.51	106.55
9	49.68	21.48	20.79E	8.29	19.19	6.90	14.20	21.60	69.94	35.12	4.03	69.14
10	31.82	21.90	21.14E	11.03	12.14	5.15	12.70	41.23	30.53	18.69	3.96	50.95
11	18.91	20.96	17.00E	6.10	10.03	4.05	7.64	8.32	17.91	8.71	4.02	59.28
12	17.04	19.51	12.93	4.89	12.09	3.05	4.26	5.35	11.97	5.02	4.58	87.47
13	16.13	17.80	16.15E	4.30	8.68	1.93	2.38	2.47	9.24	3.35	4.33	84.46
14	19.39	15.33	23.46E	8.08	10.30	1.09	1.14	1.33	11.26	2.39	4.85	78.06
15	18.51	15.05	66.26E	6.02	698.84E	0.49	0.32	0.82	13.76	1.96	7.76	69.93
16	15.08	14.36	86.55E	4.09	270.40	0.20	0.04	0.43	11.27	1.40	9.13	69.19
17	15.97	14.45E	64.89E	2.56	211.80	0.10	9.20	1.34	9.15	4.04	13.49	54.57
18	15.87	15.37	41.36E	1.50	86.88	5.96	43.41	1.23	6.58	8.65	24.09	45.07
19	13.30	26.02	30.21E	0.84	50.13	7.15	13.85	0.44	4.86	6.42	19.97	40.85
20	11.80	19.30	27.66E	0.38	36.76	10.92	7.81	0.08	3.86	50.14	19.30	42.62
21	11.30	13.71	29.78E	0.13	29.96	21.23	4.87	0.00	3.22	62.19	19.02	54.98
22	10.57	45.55	33.33E	0.02	66.34	11.76	3.68	0.0	3.07	36.36	13.80	46.09
23	9.80	57.19	31.76E	0.0 T	334.64	4.81	0.57	0.0	2.22	21.93	9.96	39.02
24	10.52	29.47	31.71E	0.0	205.46	2.41	0.75	0.0	1.60	12.25	8.23	35.47
25	9.70	19.21	18.95	0.0	86.98	3.60	2.41	0.0	1.35	11.12	7.41	36.84
26	18.93	26.37	17.07	0.0	53.92	1.43	8.41	35.15	1.25	17.72	28.48	110.97
27	110.42	16.02	20.81	0.0	44.32	2.90	17.85	127.34	1.30	16.13	208.58	90.56
28	111.04	14.11	34.68	0.0	48.44	23.67	6.30	31.22	1.98	11.71	404.95	55.62
29	66.40	14.44	27.86	0.0	50.50	38.22	2.10	13.25	2.13	9.41	356.81	54.64
30	39.84		19.45	1.43	35.17	17.93	1.65	5.84	2.58	11.52	163.49	51.43
31	30.27		17.82		27.72		3.41	3.63		11.73		55.76
MEAN	25.785	25.052	26.425	7.015	83.175	11.290	12.908	10.303	18.840	12.159	46.421	61.849
INCBES	1.543	1.402	1.581	0.406	4.976	0.654	0.772	0.616	1.091	0.727	2.688	3.700
STA AV	1.538	2.666	3.035	2.400	1.545	0.928	0.771	1.310	0.481	0.132	0.345	0.877

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.001926. STA AV values are based on 9 yr (1968-76) record period.

1976 SELECTED RUNOFF EVENT TIFTON, GEORGIA LITTLE RIVER WATERSHED I										
ANTECEDENT CONDITIONS			RAINFALL							
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 13 - 21, 1976										
RG 000031			RG 000031							
5-14	0.0		5-14	1409	0.0	0.0	5-13	2400	7.048	0.0
5-13		0.017		1555	0.0566	0.10	5-14	1010	7.349	0.0044
				1925	0.0571	0.30		1920	7.658	0.0057
				1930	1.2000	0.40		2205	18.686	0.0058
				1935	2.4000	0.60		2335	47.684	0.0072
WATERSHED CONDITIONS:				2030	0.1091	0.70		2400	59.379	0.0076
Residential, 0.1%; water,				2120	0.1200	0.80	5-15	55	87.032	0.0082
1.0%; crops, 27.1%; wet-				2145	0.2400	0.90		100	94.941	0.0088
land, 0.3%; pasture, 16%;				2155	0.6000	1.00		225	151.316	0.0162
roads, 0.9%; forest, 54.6%.				2200	2.4000	1.20		250	171.069	0.0173
				2205	2.4000	1.40		315	222.808	0.0188
				2210	1.2000	1.50		355	330.683	0.0209
				2220	0.6000	1.60		425	388.187	0.0235
				2235	0.4000	1.70		445	422.777	0.0290
				2245	0.6000	1.80		615	555.990	0.0639
				2255	1.2000	2.00		630	582.143	0.0716
				2305	0.6000	2.10		715	678.000	0.0761
				2320	0.4000	2.20		800	781.731	0.0813
				2330	0.6000	2.30		840	843.428	0.0869
				2340	0.6000	2.40		905	885.292	0.1045
				2350	0.6000	2.50		950	936.310	0.1107
			5-15	2400	0.3000	2.55		1030	979.454	0.1172
				10	0.3000	2.60		1100	1010.001	0.1240
				15	1.2000	2.70		1135	1036.405	0.1309
				100	0.1333	2.80		1150	1054.114	0.1379
				255	0.0522	2.90		1215	1058.561	0.1450
				305	0.6000	3.00		1235	1071.924	0.1522
				310	2.4000	3.20		1300	1076.384	0.1594
				320	1.2000	3.40		1345	1058.561	0.1665
				325	1.2000	3.50		1405	1054.114	0.1736

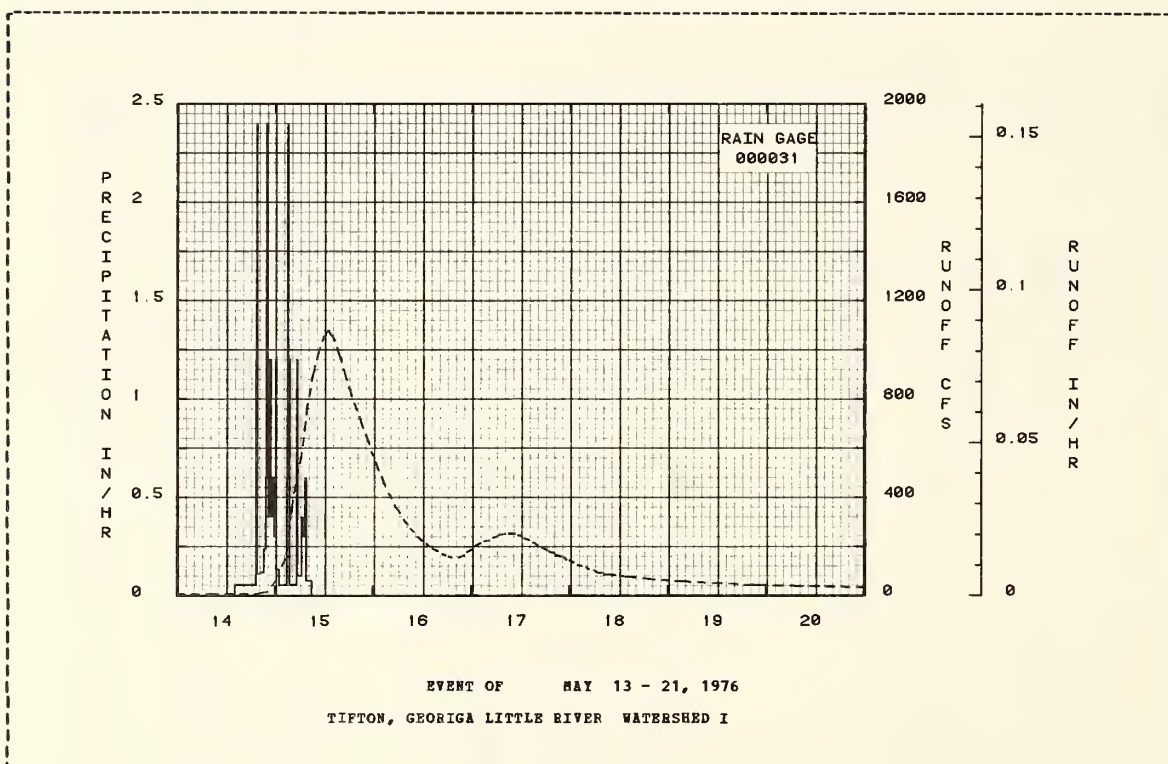
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00008025.

1976	SELECTED RUNOFF EVENT			TIPTON, GEORGIA LITTLE RIVER WATERSHED I						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 13 - 21, 1976 (CONTINUED)										
5-15	330	1.2000	3.60	5-15	1435	1036.405	0.1805			
	520	0.0545	3.70	1520	996.877	0.2075				
	530	1.2000	3.90	1615	949.194	0.2659				
	530	0.1000	4.00	1650	914.952	0.2721				
	645	0.4000	4.10	1735	876.870	0.2898				
	725	0.3000	4.30	1815	839.270	0.2955				
	735	0.6000	4.40	2000	753.406	0.4075				
	855	0.0750	4.50	2045	721.386	0.4124				
				2130	681.909	0.4216				
				2220	643.050	0.4346				
5-16				2300	612.397	0.4429				
				2355	570.897	0.4663				
				2400	570.897	0.4701				
				45	537.500	0.4737				
				120	508.231	0.4772				
				210	479.356	0.4804				
				300	443.812	0.5113				
				355	412.340	0.5197				
				430	395.059	0.5224				
				530	360.934	0.5322				
5-17				635	334.024	0.5345				
				745	300.845	0.5385				
				830	287.707	0.5405				
				905	271.370	0.5423				
				955	258.362	0.5440				
				1050	238.941	0.5456				
				1155	222.808	0.5471				
				1305	209.918	0.5485				
				1340	200.244	0.5499				
				1435	190.554	0.5512				
5-18				1545	180.834	0.5536				
				1650	167.798	0.5547				
				1745	164.523	0.5603				
				1825	157.941	0.5613				
				1910	154.637	0.5624				
				2050	154.637	0.5831				
				2200	164.523	0.5864				
				2255	177.582	0.5876				
				2400	187.314	0.5901				
				100	203.468	0.5914				
5-19				205	213.140	0.5929				
				305	222.808	0.5944				
				425	226.036	0.6080				
				515	235.714	0.6096				
				620	242.176	0.6128				
				650	248.641	0.6145				
				815	251.882	0.6263				
				905	251.882	0.6280				
				1035	251.882	0.6499				
				1120	245.407	0.6516				
5-20				1215	242.176	0.6565				
				1300	232.483	0.6580				
				1400	226.036	0.6626				
				1505	216.366	0.6669				
				1610	203.468	0.6683				
				1725	193.785	0.6722				
				1835	184.076	0.6759				
				1905	177.582	0.6771				
				2015	171.069	0.6817				
				2045	164.523	0.6828				
5-21				2155	157.941	0.6870				
				2250	151.316	0.6911				
				2320	144.641	0.6921				
				2400	141.275	0.6939				
				105	134.497	0.6976				
				200	124.152	0.6984				
				300	120.645	0.7024				
				405	113.537	0.7055				
				450	106.259	0.7062				
				600	102.543	0.7103				
5-22				645	94.941	0.7110				
				715	91.026	0.7116				
				755	91.026	0.7165				
				830	85.858	0.7170				
				1110	82.399	0.7198				

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00008025.

1976 SELECTED RUNOFF EVENT			TIFTON, GEORGIA LITTLE RIVER WATERSHED I							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 13 - 21, 1976 (CONTINUED)										
							5-18	1350	76.806	0.7203
								1605	72.484	0.7208
								1855	68.301	0.7236
								2050	64.251	0.7240
								2350	61.302	0.7277
								2400	60.337	0.7281
							5-19	320	57.489	0.7316
								530	54.716	0.7319
								910	52.908	0.7369
								1125	50.259	0.7372
								1510	47.684	0.7404
								1705	45.183	0.7407
								2025	43.556	0.7448
								2400	41.177	0.7462
							5-20	415	40.400	0.7551
								715	38.871	0.7554
								1110	38.118	0.7603
								1455	35.187	0.7605
								1840	33.072	0.7607
								2400	31.702	0.7648
							5-21	205	31.029	0.7650

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00008025.



TIPTON, GEORGIA LITTLE RIVER WATERSHED J

LOCATION: Turner County, Georgia; approximately 3 miles west of Ashburn on State Highway 32; Little River, Withlacoochee River Sub-basin, Suwanee River Basin. Lat. 31 deg. 41 min. 32 sec., long. 83 deg. 42 min. 09 sec.

AREA: 5466.00 acres 8.54 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							TIPTON, GEORGIA LITTLE RIVER WATERSHED J										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	4.84	1.84	4.69	2.83	10.10	3.72	3.59	5.41	4.37	4.69	6.72	4.38	57.18			
	Q	1.566	1.201	1.382	0.304	5.180	0.768	0.568	0.188	0.887	0.527	2.514	3.940	19.027			
STA AV	P	3.94	4.62	6.10	3.50	5.12	4.48	5.91	5.29	2.26	1.77	2.60	4.32	49.92			
	Q	1.465	2.726	3.122	2.372	1.582	0.938	0.651	1.021	0.319	0.083	0.301	0.817	15.397			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		5-15	0.087	5-15	0.087	5-15	0.173	5-15	0.500	5-15	0.930	5-15	1.484	5-15	1.989	5-15	3.002
MAXIMUMS FOR PERIOD OF RECORD																	
		3-3	0.114	3-3	0.113	3-3	0.223	3-3	0.589	4-14	1.038	3-30	1.719	5-28	2.388	5-28	4.838
		1971		1971		1971		1971		1975		1970		1970		1970	

NOTES: Watershed conditions: Residential, 0.3%; water, 0.3%; crops, 26.3%; wetland, 0.1%; pasture, 15.5%; roads, 0.9%; forest, 56.1%. For topographic and composition map showing location of rain gages see pages 74.007-31 and 74.002-22, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975, USDA Misc. Pub. 1446. Precipitation records began January 1968. Runoff records began January 1, 1968. Monthly precipitation values are weighted using the Reciprocal Distance Squared Method from 15 recording gages. For long-time precipitation records, see National Weather Service records at Tifton, Georgia.

1976 DAILY PRECIPITATION (inches)													TIPTON, GEORGIA LITTLE RIVER WATERSHED J												
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.0	0.57	0.0	0.0	0.23	0.02	0.45	0.0	0.0	0.0	0.0	0.0	0.0												
2	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.95	0.0	0.0	0.0	0.0												
3	0.24	0.0	0.0	0.0	0.0	0.0	0.04	0.05	0.01	0.0	0.0	0.0	0.0												
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.17	0.0	0.0	0.0												
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.88	0.0	0.0	0.0												
6	0.0	0.0	0.48	0.11	0.0	0.0	0.96	0.01	1.35	0.37	0.0	0.0	0.59												
7	1.09	0.0	0.0	0.0	0.81	0.0	0.02	0.86	1.46	0.0	0.0	0.0	0.46												
8	0.33	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	1.23	0.0	0.0	0.0												
9	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.33	0.01	0.01	0.0	0.0												
10	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02												
11	0.09	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.52												
12	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40												
13	0.01	0.0	0.34	0.09	0.10	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.07												
14	0.15	0.0	1.14	0.02	2.75	0.0	0.0	0.0	0.10	0.0	0.23	0.0	0.21												
15	0.0	0.0	0.56	0.0	2.31	0.0	0.0	0.0	0.0	0.01	0.0	0.05	0.11												
16	0.19	0.0	0.42	0.0	0.74	0.0	0.0	0.31	0.0	0.0	0.0	0.01	0.0												
17	0.0	0.0	0.01	0.0	0.08	0.53	0.87	0.13	0.0	0.73	0.61	0.0	0.0												
18	0.0	0.30	0.0	0.0	0.03	0.0	0.02	0.0	0.0	0.0	0.01	0.0	0.0												
19	0.0	0.01	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.12	0.08	0.0	0.0												
20	0.0	0.0	0.0	0.0	0.02	0.21	0.0	0.0	0.0	1.76	0.26	0.32													
21	0.0	0.14	0.28	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.01	0.0	0.0												
22	0.0	0.80	0.14	0.0	1.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
23	0.0	0.01	0.02	0.0	0.81	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0												
24	0.0	0.0	0.0	0.0	0.04	0.09	0.0	0.02	0.0	0.0	0.0	0.0	0.0												
25	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.01	0.0	0.36	0.0	1.04													
26	1.81	0.0	0.0	0.0	0.0	0.16	0.65	2.40	0.01	0.0	2.33	0.0	0.0												
27	0.91	0.0	0.45	0.0	0.18	0.01	0.01	0.04	0.16	0.0	1.62	0.0	0.0												
28	0.01	0.0	0.03	0.0	0.10	0.24	0.0	0.0	0.03	0.0	1.42	0.30													
29	0.01	0.0	0.0	0.21	0.0	0.25	0.13	0.0	0.07	0.0	0.09	0.0	0.0												
30	0.0	0.0	1.92	0.0	0.46	0.18	0.0	0.0	0.0	0.10	0.0	0.0	0.0												
31	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34														
TOTAL		4.84	1.84	4.69	2.83	10.10	3.72	3.59	5.41	4.37	4.69	6.72	4.38												
STA AV		3.94	4.62	6.10	3.50	5.12	4.48	5.91	5.29	2.26	1.77	2.60	4.32												

NOTES: Values are weighted using Reciprocal Distance Squared Method from 15 recording gages. STA AV values are based on 9 yr (1968-76) record period.

In Cooperation with University of Georgia College of Agriculture Experiment Stations, Georgia Institute of Technology, and Middle South Georgia Soil Conservation District

1976 MEAN DAILY DISCHARGE (cfs) TIFTON, GEORGIA LITTLE RIVER WATERSHED J												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	9.44	16.05	3.57	18.23	28.77	9.10	14.96	0.0	0.04	0.18	2.46	35.93
2	6.94	25.75	3.30	12.01	23.41	11.30	20.48	0.00	0.01	0.06	1.96	28.14
3	3.86	18.65	3.08	5.48	4.49	13.33	6.87	0.01	0.00	0.02	1.70	24.63
4	4.18	12.52	3.08	3.92	1.69	9.11	3.41	1.53	0.0 T	0.00	1.48	22.04
5	3.65	10.74	3.00	3.10	0.86	7.30	3.03	0.53	5.24	0.0	1.21	20.32
6	2.76	10.03	2.81	3.05	0.51	5.47	13.23	0.08	6.45	0.01	1.02	22.05
7	2.76	9.77	6.45	4.69	1.19	3.61	32.41	0.29	54.63	0.01E	0.97	49.78
8	18.50	8.70	8.77	3.54	9.00	2.54	12.18	3.07	76.54	0.51E	0.89	53.29
9	25.40	7.89	6.18	2.40	6.83	1.81	5.26	6.17	23.38	7.16E	0.81	32.19
10	10.38	7.19	5.55	1.77	3.44	1.29	2.81	3.38	9.77	5.72E	0.81	22.08
11	6.88	6.71	3.72	1.42	2.16	0.98	1.75	0.58	5.18	1.82E	0.83	27.95
12	6.66	6.62	3.01	1.18	2.53	0.70	1.09	0.20	3.10	0.83E	0.90	40.46
13	6.48	6.18	5.11	1.22	1.51	0.39	0.63	0.10	2.34	0.47E	0.92	45.57
14	6.50	5.63	11.02	2.85	2.57	0.17	0.30	0.03	2.98	0.30	0.99	41.24
15	6.66	5.42	33.42	1.67	322.80E	0.06	0.10	0.01	3.62	0.16	2.13	35.79
16	5.41	5.19	41.75	1.05	128.05	0.02	0.01	0.00	2.63	0.09	2.74	32.40
17	5.84	4.97	31.28	0.63	110.71	0.01	1.44	0.02	1.99	0.62	4.15	24.16
18	5.45	5.86	15.52	0.37	40.83	3.45	5.97	0.01	1.36	2.70	9.26	19.72
19	4.23	10.34	9.89	0.20	22.35	2.48	2.38	0.0	0.93	1.46	7.13	17.72
20	3.90	7.14	8.80	0.08	15.33	11.56	1.21	0.0	0.63	18.37	6.25	19.15
21	3.80	4.73	9.15	0.02	12.06	12.41	0.41	0.0	0.47	37.23	6.69	25.06
22	3.57	22.49	13.99	0.00	34.05	3.77	0.11	0.0	0.49	10.87	4.16	19.52
23	3.30	23.73	12.43	0.0	160.52	1.40	0.01	0.0	0.30	4.21	2.70	16.11
24	3.10	9.53	8.39	0.0	93.11	0.64	0.0	0.0	0.19	2.94	2.11	14.99
25	3.08	6.09	6.99	0.0	42.33	0.27	0.0	0.0	0.14	3.02	1.86	15.45
26	10.73	5.20	6.48	0.0	23.08	0.11	0.10	6.12	0.11	6.11	14.99	56.73
27	69.48	4.82	8.89	0.0	19.10	3.90	0.27	13.14	0.13	5.37	89.88	44.65
28	62.41	4.32	16.56	0.0	27.37	36.58	0.05	6.36	0.28	3.28	171.19	23.78
29	25.87	3.63	10.90	0.0	24.14	21.18	0.01	1.16	0.31	2.48	165.79	26.24
30	15.49		6.85	1.05	14.13	10.76	0.00	0.37	0.35	2.27	69.32	22.58
31	13.05		6.90		10.89		0.00	0.11		2.77		25.26
MEAN	11.604	9.509	10.235	2.331	38.377	5.882	4.209	1.395	6.787	3.906	19.242	29.191
INCHES	1.566	1.201	1.382	0.304	5.180	0.768	0.568	0.188	0.887	0.527	2.514	3.940
STA AV	1.465	2.726	3.122	2.372	1.582	0.938	0.651	1.021	0.319	0.083	0.301	0.817

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.00435449. STA AV values are based on 9 yr (1968-76) record period.

1976 SELECTED RUNOFF EVENT TIFTON, GEORGIA LITTLE RIVER WATERSHED J											
ANTECEDENT CONDITIONS			RAINFALL								
Date	Painfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 13 - 20, 1976											
5-14	RG 000038		5-14	RG 000038			5-13	2400	1.179	0.0	
5-13	0.10			1309	0.0	0.0	5-14	1825	1.079	0.0031	
		0.007		1615	0.0323	0.10		2155	4.392	0.0031	
				1920	0.0324	0.20		2400	29.677	0.0036	
				1930	1.2000	0.40		35	40.313	0.0042	
				1935	3.6000	0.70	5-15				
WATERSHED CONDITIONS:											
Residential, 0.3%; water, 0.8%; crops, 26.3%; wet-land, 0.1%; pasture, 15.5%; roads, 0.9%; forest, 56.1%.											
				1940	1.2001	0.80		125	65.595	0.0051	
				1945	1.1999	0.90		225	108.090	0.0098	
				1955	0.6000	1.00		305	127.980	0.0154	
				2050	0.1091	1.10		340	170.067	0.0179	
				2130	0.1500	1.20		415	180.060	0.0206	
				2150	0.3000	1.30		450	197.682	0.0265	
				2155	1.1999	1.40		530	238.778	0.0336	
				2205	0.6000	1.50		555	275.797	0.0377	
				2210	1.1999	1.60		620	308.374	0.0423	
				2215	2.4001	1.80		705	355.904	0.0581	
				2220	1.1999	1.90		750	393.353	0.0640	
				2235	0.4000	2.00		830	413.914	0.0887	
				2245	1.2000	2.20		855	434.742	0.0952	
				2255	0.6000	2.30		940	464.981	0.1161	
				2310	0.4000	2.40		1020	480.303	0.1233	
				2320	0.6000	2.50		1115	480.303	0.2032	
				2335	0.4000	2.60		1210	468.033	0.2103	
				2345	0.6000	2.70		1310	452.819	0.2171	
				2400	0.4000	2.80		1355	440.749	0.2238	
			5-15	10	0.5999	2.90		1450	428.761	0.2303	
				15	1.2001	3.00		1545	413.914	0.2366	
				110	0.1091	3.10		1625	405.063	0.2427	
				250	0.1200	3.30		1630	413.914	0.2489	
				255	2.4000	3.50		1655	396.271	0.2549	
				300	1.1999	3.60		1755	381.729	0.2607	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00018143.

1976	SELECTED RUNOFF EVENT			TIFTON, GEORGIA LITTLE RIVER WATERSHED J						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MAY 13 - 20, 1976 (CONTINUED)										
5-15			305		1.2001	3.70	5-15	1835	370.195	0.2663
			315		1.2000	3.90		1900	358.751	0.2772
			320		3.6000	4.20		1945	344.573	0.2824
			330		0.6000	4.30		2020	330.539	0.2874
			355		0.2400	4.40		2105	311.125	0.2921
			515		0.0750	4.50		2150	289.273	0.3054
			555		0.1500	4.60		2240	267.777	0.3178
			655		0.1000	4.70		2335	246.623	0.3253
			705		0.6000	4.80		2400	238.778	0.3289
			715		1.2000	5.00	5-16	50	223.225	0.3323
5-16			725		0.5999	5.10		140	205.296	0.3386
			1318		0.0	5.10		240	190.106	0.3415
			1325		0.8572	5.20		320	180.060	0.3442
			1355		1.0000	5.70		345	180.060	0.3469
			1400		2.4000	5.90		415	167.579	0.3521
5-18			1425		0.2400	6.00		520	157.644	0.3544
			1		0.0	6.00		620	145.276	0.3567
			5		1.4999	6.10		715	135.394	0.3587
								805	130.451	0.3646
								905	118.070	0.3664
								955	113.091	0.3716
								1035	105.581	0.3732
								1145	99.638	0.3777
								1255	90.236	0.3791
								1350	84.889	0.3804
								1455	83.152	0.3854
								1540	79.755	0.3866
								1645	79.755	0.4023
								1755	50.236	0.4037
								1915	110.591	0.4053
								2005	118.070	0.4071
								2040	120.551	0.4089
								2135	120.551	0.4290
								2140	123.029	0.4308
								2225	123.029	0.4475
								2245	125.507	0.4494
								2345	125.507	0.4722
								2400	123.029	0.4755
							5-17	145	123.029	0.5150
								230	130.451	0.5169
								320	132.925	0.5250
								335	135.394	0.5270
								435	135.394	0.5516
								530	135.394	0.5597
								545	135.394	0.5618
								620	137.862	0.5639
								805	137.862	0.6076
								820	135.394	0.6097
								910	135.394	0.6261
								955	130.451	0.6281
								1045	125.507	0.6300
								1135	123.029	0.6374
								1230	115.581	0.6392
								1330	113.091	0.6460
								1400	108.090	0.6477
								1515	103.571	0.6540
								1625	95.802	0.6554
								1735	92.066	0.6610
								1840	84.889	0.6623
								2005	79.755	0.6659
								2115	73.235	0.6670
								2225	68.585	0.6681
								2400	64.134	0.6720
							5-18	100	59.880	0.6729
								230	55.817	0.6737
								355	51.940	0.6745
								540	49.457	0.6783
								700	45.883	0.6790
								825	43.597	0.6796
								1030	41.390	0.6840
								1205	38.218	0.6846
								1420	36.196	0.6895
								1610	33.297	0.6900
								1805	32.365	0.6954
								2010	29.677	0.6959

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00018143.

TIPTON, GEORGIA LITTLE RIVER WATERSHED K

LOCATION: Turner County, Georgia; approximately 2 miles west of Ashburn on State Highway 32; Newell Branch, Withlacoochee River Sub-basin, Suwanee River Basin. Lat. 31 deg. 41 min. 46 sec., Long. 83 deg. 41 min. 52 sec.

AREA: 4115.00 acres 6.43 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														TIPTON, GEORGIA LITTLE RIVER WATERSHED K													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1976	P	4.60	1.93	4.56	2.77	10.21	2.66	4.80	6.46	4.02	4.51	6.60	4.43	57.57													
	Q	1.505	1.366	1.572	0.448	4.590	0.463	0.777	0.620	0.913	0.720	2.084	3.818	18.876													
STA AV	P	3.84	4.60	6.06	3.47	5.00	4.54	6.05	6.11	2.18	1.73	2.53	4.30	50.42													
	Q	1.459	2.566	2.946	2.301	1.410	0.896	0.774	1.462	0.433	0.129	0.280	0.851	15.528													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		12 Hours		1 Day		2 Days		6 Days											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1976		5-15	0.087	5-15	0.086	5-15	0.171	5-15	0.474	5-15	0.830	5-15	1.254	5-14	1.636	5-15	2.551										
MAXIMUMS FOR PERIOD OF RECORD																											
		4-14	0.094	4-14	0.093	4-14	0.186	4-14	0.534	4-14	0.944	4-14	1.454	4-14	1.909	4-10	3.539										
1975				1975				1975		1975		1975		1975		1975											

NOTES: Watershed conditions: Water, 1.0%; crops, 29.8%; wetland, 0.1%; pasture, 12.6%; roads, 0.7%; forest, 55.8%. For topographic and composition map showing location of rain gages see pages 74.008-30 and 74.002-22, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975, USDA Misc. Pub. 1446. Precipitation records began January 1968. Runoff records began January 1, 1968. Monthly precipitation values are weighted using the Reciprocal Distance Squared Method from 12 recording gages. For long-time precipitation records, see National Weather Service records at Tifton, Georgia.

1976 DAILY PRECIPITATION (inches)														TIPTON, GEORGIA LITTLE RIVER WATERSHED K											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.0	0.59	0.0	0.0	0.24	0.01	0.50	0.0	0.0	0.0	0.0	0.0	0.0												
2	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.02	0.00	0.0	0.0	0.0	0.0												
3	0.24	0.0	0.0	0.0	0.0	0.0	0.01	0.03	0.01	0.0	0.0	0.0	0.0												
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.11	0.0	0.0	0.0												
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.81	0.0	0.0	0.0												
6	0.0	0.0	0.53	0.20	0.0	0.0	1.06	0.0	0.0	0.96	0.34	0.0	0.69												
7	0.57	0.0	0.0	0.0	0.71	0.0	0.01	0.61	0.0	1.53	0.0	0.0	0.45												
8	0.41	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.02	1.22	0.0	0.0												
9	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.65	0.01	0.02	0.0	0.0												
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0												
11	0.03	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.52												
12	0.02	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.40												
13	0.0	0.0	0.32	0.03	0.02	0.0	0.0	0.0	0.0	0.01	0.01	0.0	0.05												
14	0.11	0.0	1.10	0.0	2.76	0.0	0.0	0.0	0.0	0.15	0.0	0.21	0.23												
15	0.0	0.0	0.57	0.0	2.38	0.0	0.0	0.0	0.0	0.02	0.0	0.10	0.10												
16	0.15	0.0	0.39	0.0	0.76	0.0	0.0	0.0	0.37	0.0	0.0	0.01	0.0												
17	0.0	0.0	0.0	0.0	0.05	0.04	1.40	0.12	0.0	0.64	0.0	0.0	0.0												
18	0.0	0.29	0.0	0.0	0.04	0.02	0.18	0.0	0.0	0.0	0.0	0.0	0.0												
19	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.14	0.09	0.0	0.0												
20	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	1.69	0.26	0.32	0.0												
21	0.0	0.12	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0												
22	0.0	0.93	0.12	0.0	1.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
23	0.0	0.0	0.01	0.0	0.89	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0												
24	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0												
25	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.02	0.05	0.33	0.0	1.03												
26	1.76	0.0	0.0	0.0	0.0	0.0	0.09	1.07	3.13	0.01	0.0	2.30	0.0												
27	0.82	0.0	0.45	0.0	0.0	0.09	0.61	0.03	0.07	0.16	0.0	1.62	0.0												
28	0.0	0.0	0.0	0.0	0.10	0.22	0.0	0.0	0.0	0.01	0.0	1.31	0.28												
29	0.0	0.0	0.0	0.22	0.0	0.08	0.07	0.0	0.0	0.07	0.0	0.09	0.0												
30	0.0	0.0	0.0	1.85	0.0	0.59	0.20	0.0	0.0	0.0	0.10	0.0	0.0												
31	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.36												
TOTAL		4.60	1.93	4.56	2.77	10.21	2.66	4.80	6.48	4.02	4.51	6.60	4.43												
STA AV		3.84	4.60	6.06	3.47	5.00	4.54	6.05	6.11	2.18	1.73	2.53	4.30												

NOTES: Values are weighted using Reciprocal Distance Squared Method from 12 recording gages. STA AV values are based on 9 yr (1968-1976) record period.

In Cooperation with University of Georgia College of Agriculture Experiment Stations, Georgia Institute of Technology, and Middle South Georgia Soil Conservation District

1976 MEAN DAILY DISCHARGE (cfs) TIPTON, GEORGIA LITTLE RIVER WATERSHED K												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	8.88	14.30	3.08	16.23	20.73	8.11	6.55	0.81	0.70	0.32	2.57	22.62
2	6.02	18.24	2.81	15.35	12.71	9.29	14.93	0.23	0.45	0.18	2.05	19.97
3	2.94	13.84	2.76	5.83	4.56	10.29	10.33	0.32	0.25	0.09	1.80	16.63
4	2.67	11.65	3.36	4.12	2.13	8.15	2.05	0.42	0.14	0.06	1.60	15.37
5	2.28	8.34	6.05	4.03	1.34	6.87	1.49	0.45	3.69	0.65	1.43	13.46
6	3.39	6.77	2.79	3.12	1.73	5.69	12.93	0.11	10.48	0.08	4.46	15.29
7	2.61	7.19	8.64	4.46	6.92	3.99	16.57	0.59	39.14	0.24	1.55	34.47
8	16.65	7.19	7.46	3.24	5.90	2.88	6.72	2.02	41.38	4.47	1.13	33.38
9	17.04	6.85	10.02	5.57	4.72	2.03	2.88	8.57	22.36	12.76	0.97	22.03
10	8.88	8.40	5.76	4.16	3.53	1.41	6.94	10.85	8.09	3.58	1.01	16.77
11	4.88	7.51	3.92	2.25E	3.58	1.10	2.00	2.81	4.77	1.96	1.02	24.16
12	4.40	6.59	2.69	1.62E	4.96	0.79	0.79	2.37	2.95	1.16	1.02	36.22
13	4.52	4.97	6.23	1.36E	3.38	0.53	0.31	0.46	1.86	0.76	1.10	31.93
14	7.79	4.20	9.60	1.08E	6.98	0.41	0.10	0.20	3.15	0.55	1.51	25.65
15	5.70	4.13	25.52	1.15	216.25E	0.17	0.02	0.11	4.08	0.36	2.21	23.01
16	3.77	4.11	29.78	0.63	66.79	0.14	0.0	0.14	3.59	0.32	2.45	26.23
17	5.81	4.36	23.16	0.36	65.57	0.14	3.11	0.75	2.61	1.70	4.88	18.53
18	5.20	6.63	12.25	0.15	26.91	0.02	12.34	0.53	1.37	2.16	7.60	15.31
19	4.09	8.25	7.15	0.04	16.20	0.00	5.96	0.14	0.96	1.38	5.31	13.88
20	3.56	4.17	6.06	0.01	11.69	0.64	4.02	0.01	0.75	21.03	6.51	15.57
21	3.16	3.27	6.98	0.0 T	9.75	4.68	3.36	0.00	0.64	17.13	5.55	19.41
22	2.73	18.50	5.75	0.0	28.72	2.35	0.78	0.0	0.65	9.50	3.66	15.41
23	2.64	14.60	10.65	0.0	100.74	0.81	0.11	0.0	0.38	12.04	2.69	13.25
24	3.93	7.56	13.86	0.0	55.37	0.71	2.92	0.0 T	0.27	3.18	2.23	11.68
25	2.59	7.22	5.63	0.0	26.24	1.89	0.59	0.0	0.28	3.24	2.03	13.42
26	10.17	13.34	5.05	0.0	17.64	0.14	2.76	15.00	0.41	5.57	13.11	40.11
27	36.28	4.28	7.76	0.0	14.91	0.03	5.38	42.30	0.50	4.14	55.55	28.54
28	30.42	3.94	11.45	0.0	16.94	1.87	2.57	9.87	0.69	3.13	105.19	18.10
29	25.91	5.14	8.09	0.0	16.25	2.78	0.50	5.64	0.65	2.60	79.13	20.50
30	12.38		6.17	2.67	11.19	2.23	1.79	1.54	0.63	6.91	38.78	18.65
31	8.78		7.25		9.24		3.49	0.89		3.41		20.37
MEAN	8.396	8.144	8.765	2.581	25.597	2.671	4.335	3.458	5.262	4.015	12.009	21.292
INCHES	1.505	1.366	1.572	0.448	4.590	0.463	0.777	0.620	0.913	0.720	2.084	3.818
STA AV	1.459	2.566	2.948	2.301	1.410	0.896	0.774	1.462	0.433	0.129	0.280	0.851

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.0057841. STA AV values are based on 9 yr (1968-76) record period.

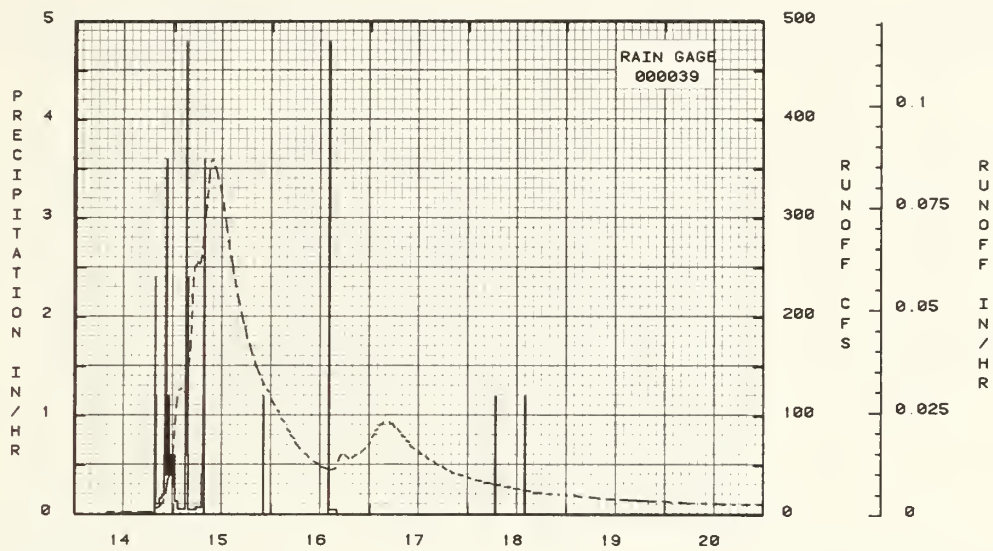
1976 SELECTED RUNOFF EVENT TIPTON, GEORGIA LITTLE RIVER WATERSHED K										
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 12 - 20, 1976										
RG 000039			RG 000939							
5-14	0.0	0.054	5-14	1034	0.0	0.0	5-14	750	3.183	0.0
				1500	0.0226	0.13		1340	2.812	0.0012
				1925	0.0226	0.20		1835	2.994	0.0014
				1930	2.4001	0.43		2055	9.478	0.0016
				1935	1.1999	0.50		2145	14.837	0.0019
WATERSHED CONDITIONS:				1945	1.2000	0.70		2210	22.198	0.0023
Water, 1.0%; crops, 29.8%;				2040	0.1091	0.80		2245	36.549	0.0030
wetland, 0.1%; pasture,				2115	0.1714	0.90		2255	38.133	0.0045
12.6%; roads, 0.7%;				2145	0.2000	1.00		2330	50.316	0.0108
forest, 55.8%.				2155	0.6000	1.10		2400	70.033	0.0135
				2205	1.2000	1.30	5-15	20	93.683	0.0153
				2210	3.6000	1.60		55	119.576	0.0264
				2215	1.1999	1.70		120	126.524	0.0339
				2230	0.4000	1.80		200	128.268	0.0442
				2240	0.6000	1.90		240	124.784	0.0492
				2245	1.1999	2.00		300	121.310	0.0516
				2255	0.6000	2.10		315	126.524	0.0591
				2300	1.1999	2.20		330	147.681	0.0620
				2315	0.4000	2.30		350	158.457	0.0683
				2325	0.6000	2.40		405	169.376	0.0782
				2335	0.5999	2.50		410	176.732	0.0816
				2345	0.6000	2.60		435	224.212	0.1018
				2400	0.2800	2.57		445	235.958	0.1111
			5-15	5	0.3600	2.70		505	251.943	0.1161
				15	0.6000	2.80		535	253.954	0.1263
				25	0.6000	2.50		550	255.972	0.1366
				110	0.1333	3.00		615	253.954	0.1468
				255	0.0571	3.10		630	255.972	0.1571
				300	4.7999	3.50		705	274.306	0.1626
				305	1.2001	3.60		710	280.455	0.1681

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000241.

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000241.

1976	SELECTED RUNOFF EVENT			TIFTON, GEORGIA LITTLE RIVER						WATERSHED K	
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 12 - 20, 1976 (CONTINUED)											
							5-17	835	78.585	0.7354	
								855	75.172	0.7369	
								930	73.462	0.7414	
								955	70.033	0.7428	
								1055	66.670	0.7441	
								1155	64.480	0.7480	
								1240	61.274	0.7493	
								1340	59.189	0.7528	
								1430	56.139	0.7540	
								1535	54.159	0.7583	
								1645	50.316	0.7593	
								1750	48.456	0.7632	
								1850	45.742	0.7642	
								1940	43.983	0.7651	
								2035	42.262	0.7659	
								2140	40.581	0.7667	
								2250	39.755	0.7723	
								2400	38.133	0.7769	
							5-18	45	36.549	0.7777	
								155	35.004	0.7784	
								320	34.246	0.7832	
								405	32.759	0.7839	
								535	32.028	0.7890	
								625	30.598	0.7896	
								755	29.896	0.7950	
								855	28.521	0.7956	
								1020	27.847	0.7995	
								1115	26.528	0.8001	
								1240	25.862	0.8042	
								1335	24.617	0.8047	
								1515	23.999	0.8095	
								1605	22.789	0.8100	
								1755	22.198	0.8145	
								1915	21.041	0.8149	
								2030	20.476	0.8153	
								2210	20.475	0.8235	
								2215	19.920	0.8239	
								2400	19.920	0.8323	
							5-19	10	19.373	0.8327	
								205	19.373	0.8417	
								345	18.304	0.8420	
								700	17.783	0.8488	
								815	16.767	0.8492	
								950	16.272	0.8495	
								1135	16.272	0.8564	
								1315	15.306	0.8567	
								1510	15.306	0.8637	
								1515	14.637	0.8640	
								1719	14.837	0.8709	
								1715	14.375	0.8712	
								1955	14.375	0.8804	
								2000	13.922	0.8807	
								2400	13.922	0.8941	
							5-20	135	13.040	0.8944	
								520	12.612	0.9002	
								525	12.193	0.9005	
								1005	12.193	0.9142	
								1019	11.780	0.9144	
								1240	11.760	0.9215	
								1450	10.981	0.9217	
								1705	10.581	0.9277	
								1710	10.593	0.9279	
								2400	10.593	0.9454	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000241.



EVENT OF MAY 12 - 20, 1976
TIFTON, GEORGIA LITTLE RIVER WATERSHED

TIPTON, GEORGIA LITTLE RIVER WATERSHED M

LOCATION: Turner County, Georgia; approximately 4 miles northwest of Ashburn on County Road S1531; Newell Branch, Little River Watershed, Withlacoochee River Sub-basin, Suwanee River Basin. Lat. 31 deg. 41 min. 46 sec., long. 83 deg. 43 min. 52 sec.

AREA: 646.00 acres 1.01 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)										TIPTON, GEORGIA LITTLE RIVER WATERSHED M							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1976	P	4.73	1.50	4.91	2.66	10.08	3.66	4.13	5.69	3.89	4.88	6.80	4.38	57.31			
	Q	0.967	0.871	1.039	0.225	3.154	0.615	0.635	0.281	0.412	0.431	1.509	2.857	13.015			
STA AV	P	3.98	4.65	6.39	3.43	4.85	4.89	6.04	5.18	2.05	1.76	2.57	4.34	50.15			
	Q	1.049	1.942	2.482	1.733	1.052	0.898	0.659	0.773	0.138	0.068	0.190	0.563	11.547			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		5-15	0.073	5-15	0.074	5-15	0.142	5-15	0.406	5-15	0.681	5-14	0.936	5-14	1.229	5-15	1.856
MAXIMUMS FOR PERIOD OF RECORD																	
		3- 3	0.341	3- 3	0.325	3- 3	0.594	3- 3	1.159	3- 3	1.420	3- 2	1.948	3- 2	2.261	2-28	3.254
		1971		1971		1971		1971		1971		1971		1971		1971	

NOTES: Watershed conditions: Crops, 42.2%; pasture, 10.6%; roads, 0.7%; forest, 46.5%. For topographic and composition map showing location of rain gages see pages 74.009-24 and 74.002-22, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975, USDA Misc. Pub. 1446. Precipitation records began January 1968. Runoff records began January 1968. Monthly precipitation values are weighted using Reciprocal Distance Squared Method from 8 recording gages. For long-time precipitation records, see National Weather Service records at Tifton, Georgia.

1976 DAILY PRECIPITATION (inches)														TIPTON, GEORGIA LITTLE RIVER WATERSHED M													
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
	1	0.0	0.50	0.0	0.0	0.22	0.0	0.33	0.0	0.0	0.0	0.0	0.0														
	2	0.0	0.0	0.0	0.0	0.0	0.29	0.04	1.29	0.0	0.0	0.0	0.0														
	3	0.25	0.0	0.0	0.0	0.0	0.05	0.05	0.04	0.0	0.0	0.0	0.0														
	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0														
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.59	0.0	0.0	0.0														
	6	0.0	0.0	0.58	0.10	0.0	0.0	0.94	0.0	1.12	0.34	0.0	0.56														
	7	1.06	0.0	0.0	0.0	0.70	0.0	0.0	1.20	1.61	0.0	0.0	0.45														
	8	0.34	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	1.18	0.0	0.0														
	9	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.06	0.06	0.01	0.0	0.0														
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0														
	11	0.05	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.62														
	12	0.05	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.50														
	13	0.0	0.0	0.37	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.05														
	14	0.11	0.0	1.21	0.0	2.87	0.0	0.0	0.0	0.05	0.0	0.18	0.21														
	15	0.0	0.0	0.58	0.0	2.19	0.0	0.0	0.0	0.02	0.0	0.07	0.09														
	16	0.15	0.0	0.45	0.0	0.70	0.0	0.0	0.11	0.0	0.0	0.06	0.0														
	17	0.0	0.0	0.0	0.0	0.16	0.01	1.18	0.06	0.0	0.72	0.60	0.0														
	18	0.0	0.20	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0														
	19	0.0	0.0	0.0	0.0	0.0	0.72	0.0	0.0	0.0	0.09	0.04	0.0														
	20	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	2.06	0.29	0.24														
	21	0.0	0.16	0.38	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0														
	22	0.0	0.54	0.10	0.0	1.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	23	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.21	0.0	0.0	0.0	0.0														
	24	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	25	0.02	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.36	0.0	1.04														
	26	1.74	0.0	0.0	0.0	0.0	0.13	0.55	2.64	0.0	0.0	2.22	0.01														
	27	0.95	0.0	0.44	0.0	0.23	0.83	0.03	0.08	0.14	0.0	1.54	0.0														
	28	0.0	0.0	0.0	0.0	0.10	0.21	0.0	0.0	0.0	0.0	1.73	0.28														
	29	0.0	0.0	0.0	0.21	0.0	0.08	0.03	0.0	0.08	0.0	0.07	0.02														
	30	0.0	0.0	0.0	1.80	0.0	1.10	0.40	0.0	0.0	0.10	0.0	0.0														
	31	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31														
TOTAL		4.73	1.50	4.91	2.66	10.08	3.66	4.13	5.69	3.89	4.88	6.80	4.38														
STA AV		3.98	4.65	6.39	3.43	4.85	4.89	6.04	5.18	2.05	1.76	2.57	4.34														

NOTES: Values are weighted using Reciprocal Distance Squared Method from 8 recording gages. STA AV values are based on 9 yr (1963-75) record period.

1976 MEAN DAILY DISCHARGE (cfs) TIPTON, GEORGIA LITTLE RIVER WATERSHED M												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.826	1.603	0.335	1.813	2.921	0.912	3.326	0.019	0.027	0.023	0.341	2.322
2	0.442	2.117	0.311	0.602	0.942	1.603	1.609	0.029	0.022	0.027	0.288	2.110
3	0.321	1.275	0.301	0.495	0.338	1.388	0.575	0.923	0.021	0.027	0.258	1.947
4	0.353	1.057	0.291	0.372	0.146	1.026	0.362	0.483	0.025	0.022	0.228	1.807
5	0.281	0.978	0.268	0.291	0.073	0.908	0.327	0.178	0.029	0.019	0.201	1.733
6	0.235	0.954	0.326	0.282	0.041	0.700	1.890	0.062	0.058	0.020	0.168	2.081
7	0.319	0.936	1.131	0.375	0.113	0.518	2.111	1.375	5.848	0.031	0.166	4.492
8	2.234	0.851	0.717	0.315	0.633	0.414	0.777	0.828	2.349	0.036	0.157	3.309
9	1.229	0.801	0.614	0.235	0.549	0.315	0.424	0.264	0.846	0.364	0.145	2.063
10	0.674	0.727	0.506	0.178	0.343	0.261	0.239	0.124	0.487	0.497	0.143	1.885
11	0.538	0.723	0.385	0.149	0.229	0.212	0.142	0.061	0.283	0.216	0.145	3.268
12	0.528	0.713	0.313	0.118	0.274	0.164	0.084	0.031	0.160	0.104	0.145	3.458
13	0.511	0.664	0.428	0.099	0.184	0.103	0.045	0.022	0.100	0.055	0.145	4.435
14	0.661	0.621	1.338	0.083	1.323	0.059	0.027	0.020	0.101	0.032	0.166	2.792
15	0.569	0.596	3.546	0.072	24.921	0.045	0.021	0.018	0.167	0.020	0.305	3.277
16	0.467	0.574	3.164	0.056	8.382	0.040	0.019	0.016	0.160	0.019	0.360	2.579
17	0.504	0.574	1.983	0.037	4.778	0.045	0.171	0.016	0.110	0.040	0.674	2.029
18	0.441	0.612	0.954	0.028	2.577	0.036	2.395	0.013	0.066	0.133	1.240	1.784
19	0.406	0.754	0.767	0.021	1.604	0.410	1.680	0.008	0.049	0.143	0.702	1.703
20	0.373	0.623	0.722	0.019	1.161	1.864	0.476	0.006	0.032	3.960	0.724	1.977
21	0.369	0.535	1.065	0.019	0.977	1.052	0.176	0.006	0.031	1.798	0.756	2.202
22	0.369	1.264	1.279	0.023	6.242	0.441	0.078	0.003	0.022	0.623	0.499	1.674
23	0.360	1.174	1.051	0.016	9.876	0.203	0.040	0.0	0.030	0.362	0.357	1.674
24	0.336	0.676	0.779	0.013	4.405	0.115	0.025	0.0	0.026	0.260	0.290	1.578
25	0.334	0.526	0.664	0.024	2.392	0.060	0.029	0.0	0.022	0.276	0.261	1.878
26	1.431	0.435	0.611	0.017	1.747	0.036	0.034	0.216	0.022	0.664	2.465	5.864
27	5.700	0.444	0.974	0.017	1.788	0.381	0.038	2.112	0.030	0.565	6.392	2.348
28	2.519	0.408	1.364	0.017	2.750	1.366	0.033	0.544	0.028	0.401	12.388	1.956
29	1.343	0.367	0.826	0.013	1.639	0.734	0.034	0.159	0.019	0.317	7.929	2.716
30	1.096		0.609	0.100	1.209	1.290	0.023	0.060	0.021	0.301	2.917	1.864
31	1.014		0.688		1.051		0.016	0.034		0.343		2.734
MEAN	0.3640	0.6149	0.9039	0.2034	2.7612	0.5567	0.5556	0.2461	0.3730	0.3773	1.3651	2.5010
INCHES	0.987	0.871	1.039	0.225	3.154	0.615	0.635	0.281	0.412	0.431	1.509	2.857
STA AV	1.049	1.942	2.482	1.733	1.052	0.898	0.659	0.773	0.138	0.068	0.190	0.563

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.035419. STA AV values are based on 9 yr (1968-76) record period.

1976 SELECTED RUNOFF EVENT			TIPTON, GEORGIA LITTLE RIVER WATERSHED M							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF OCTOBER 18 - 24, 1976										
RG 000049			RG 000049							
10-13	0.0		10-19	2239	0.0	0.0	10-18	1020	0.125	0.0
10-18		0.002		2330	0.1177	0.10		1345	0.166	0.0000
				2400	0.1200	0.16		2400	0.166	0.0026
			10-20	20	0.1200	0.20	10-19	1430	0.145	0.0043
				55	0.1714	0.30		1435	0.125	0.0043
WATERSHED CONDITIONS:										
Crops, 42.2%; pasture, 10.6%; roads, 0.7%; forest, 46.5.										
				100	1.2001	0.40		2400	0.125	0.0044
				110	0.5999	0.50	10-20	340	0.621	0.0045
				120	0.6000	0.60		630	1.297	0.0047
				135	0.4000	0.70		810	3.402	0.0051
				140	1.1999	0.80		910	4.108	0.0056
				150	0.6000	0.90		1015	4.785	0.0068
				215	0.2400	1.00		1115	6.369	0.0076
				255	0.1500	1.10		1200	6.969	0.0103
				325	0.2000	1.20		1205	7.284	0.0112
				340	0.4000	1.30		1255	7.284	0.0205
				525	0.0571	1.40		1415	7.284	0.0308
				640	0.0800	1.50		1420	6.969	0.0317
				645	1.2001	1.60		1500	6.969	0.0388
				650	2.4000	1.80		1505	6.664	0.0397
				755	0.0923	1.90		1600	6.664	0.0491
								1605	6.369	0.0499
								1645	6.369	0.0564
								1650	6.083	0.0572
								1735	6.083	0.0642
								1820	5.538	0.0650
								1930	5.278	0.0697
								2005	4.785	0.0703
								2105	4.552	0.0738
								2140	4.108	0.0743
								2255	3.959	0.0779

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001475797.

1976 SELECTED RUNOFF EVENT			TIFTON, GEORGIA LITTLE RIVER WATERSHED M							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF OCTOBER 18 - 24, 1976 (CONTINUED)										
							10-20	2400	3.581	0.0797
							10-21	105	3.402	0.0832
								200	3.061	0.0836
								325	2.900	0.0866
								425	2.595	0.0869
								550	2.451	0.0894
								635	2.180	0.0897
								840	1.979	0.0915
								1015	1.703	0.0917
								1245	1.533	0.0935
								1450	1.297	0.0936
								1815	1.152	0.0956
								1950	1.018	0.0957
								2255	0.954	0.0979
								2400	0.893	0.0993
							10-22	245	0.777	0.0994
								705	0.723	0.1020
								955	0.621	0.1020
								1455	0.574	0.1040
								1810	0.485	0.1041
								2400	0.444	0.1053
							10-23	250	0.406	0.1054
								820	0.406	0.1088
								825	0.369	0.1089
								1315	0.369	0.1116
								1800	0.301	0.1116
								2400	0.301	0.1144
							10-24	255	0.271	0.1144
								1125	0.271	0.1180
								1210	0.242	0.1180
								2400	0.242	0.1224

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001475797.

